## Health Science Fundamentals, 4th Edition

By: Pearson

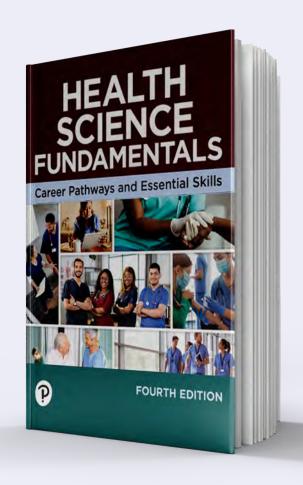
Prepare the next generation of healthcare professionals with real-world skills and certification alignment.

Health Science Fundamentals: Exploring Career Pathways integrates career exploration, medical knowledge, and clinical practice in one comprehensive program. From anatomy to patient care, students build critical skills supported by hands-on learning.

#### **Key Features:**



- Workplace Skills: Teaches communication, teamwork, ethics, and professionalism in healthcare settings.
- Medical & Clinical Foundations: Covers medical terminology, anatomy, vital signs, assisting techniques, and lab skills.
- 21st Century Learning: Includes public health, wellness, and safety; emphasizes cultural awareness and patient-centered care.
- Wraparound Support: Teacher's Edition with instructional strategies, teaching notes, and differentiated instruction support.



#### Digital Learning with MyLab®



- Personalized instruction with adaptive learning tools
- Student performance insights and learning gap analysis
- Access to trusted content aligned to state and industry standards
- Comprehensive assessment and customization options

# **Table of Contents:**

Chapter 1	Introduction to being a health care worker	Chapter 12	Measurement and the scientific process
Chapter 2	Understanding health care systems	Chapter 13	Your body and how it functions
Chapter 3	Finding the right occupation for you	Chapter 14	Human growth and development
Chapter 4	Employability and leadership	Chapter 15	Mentalillness
Chapter 5	Understanding your legal obligations	Chapter 16	Nutrition
Chapter 6	Medical ethics	Chapter 17	Controlling infection
Chapter 7	Wellness	Chapter 18	Patient and employee safety
Chapter 8	Teamwork	Chapter 19	Measuring vital signs and other clinical skills
Chapter 9	Effective communication	Chapter 20	Medical assisting and laboratory skills
Chapter 10	Medical terminology	Chapter 21	Therapeutic techniques and sports medicine
Chapter 11	Medical math	Chapter 22	Responsibilities of a dental assistant

### **ISBN List**

9780138082758	Student Edition (HS Hardcover)	9780138267612	Six (6) MyLab digitally delivered access codes
9780138083168	Student Edition with MyLab digitally delivered access code	9780138082765	Student Activity Guide
9780138083229	Student Edition with six (6) MyLab digitally delivered access codes	9780138098735	Student Edition with Student Activity Guide
9780138082819	MyLab digitally delivered access code	9780138082802	Teacher's Wraparound Edition

# Anatomy, Physiology, & Disease, 6th Edition

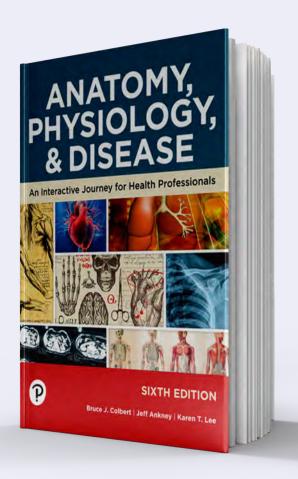
By: Jeff J. Ankney & Bruce J. Colbert

# An interactive, real-world approach to understanding the human body.

Anatomy, Physiology, and Disease: An Interactive Journey for Healthcare Professionals combines foundational science with clinical relevance. With case studies, pharmacology, diagnostic insights, and personalized learning tools, students explore how the human body works—and what happens when it doesn't. This program aligns to the YouScience™ Medical Anatomy & Physiology certification exam.

#### **Key Features:**

- Integrated Learning: Links anatomy, physiology, and pathology with real clinical applications.
- Career Focused: Includes professional skills, patient care practices, and "Focus on Professions" career spotlights.
- Interactive Tools: MyLab® supports personalized learning with dynamic study modules, auto-graded quizzes, videos, and labeling activities.
- Engaging Design: Two case studies follow patients through the body systems; "Pharmacology Corner" and "Pathology Connections" reinforce real-world understanding.
- Teacher Support: Wraparound Edition, lecture slides, TestGen, differentiated instruction resources and Spanish-language supplements including glossary and lesson objectives.



## Digital Learning with MyLab®



- Personalized instruction with adaptive learning tools
- Student performance insights and learning gap analysis
- Access to trusted content aligned to state and industry standards
- Comprehensive assessment and customization options

# **Table of Contents:**

Chapter 1	Anatomy, physiology and disease	Chapter 12	The cardiovascular system
Chapter 2	The human body	Chapter 13	The respiratory system
Chapter 3	Biochemistry	Chapter 14	The lymphatic and immune systems
Chapter 4	The cells	Chapter 15	The gastrointestinal system
Chapter 5	Tissues and systems	Chapter 16	The urinary system
Chapter 6	The skeletal system	Chapter 17	The reproductive system
Chapter 7	The muscular system	Chapter 18	Basic diagnostic tests
Chapter 8	The integumentary system	Chapter 19	Anatomy and physiology and the scientific method
Chapter 9	The nervous system	Chapter 20	The journey's end
Chapter 10	The endocrine system	Chapter 21	Health care: careers and career planning
Chapter 11	The senses	Chapter 22	The study success companion

### **ISBN List**

9780138045180	Student Edition (HS Hardcover)	9780138267568	Six (6) MyLab digitally delivered access codes
9780138046644	Student Edition with MyLab digitally delivered access code	9780138045210	Student Activity Guide
9780138046651	Student Edition with six (6) MyLab digitally delivered access codes	9780138098797	Student Edition with Student Activity Guide
9780138045487	MyLab digitally delivered access code	9780138045289	Teacher's Wraparound Edition

# Nursing Careers: Foundational Concepts and Skills, 1st Edition

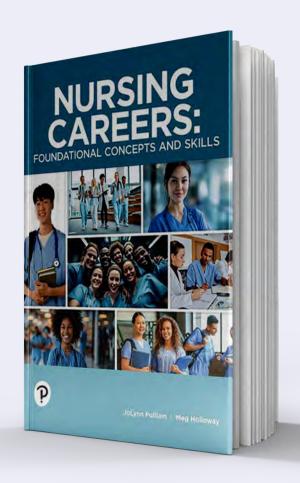
By: JoLynn Pulliam & Meg Holloway

# Hands-on skills and foundational knowledge for aspiring nursing assistants.

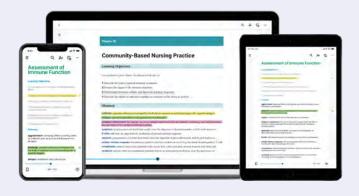
Nursing Careers prepares students for entry-level nursing careers with a focus on practical clinical skills, professionalism, and patient care. The course combines engaging content and rigorous instruction to build confidence, meet certification standards, and guide students through the career decision-making process.

#### **Key Features:**

- Workplace Readiness: Emphasizes communication, employability, patient interaction, and ethical responsibilities.
- Skills-Based Learning: Covers hygiene, positioning, vital signs, emergency care, nutrition, and specialty procedures.
- Real-World Application: Includes OBRA and Joint Commission callouts, patient safety guidelines, and longterm care skills.
- Engaging Features: On-page glossaries, detailed illustrations, "Stop and Jot" prompts, and chapter-based procedures.
- Robust Support: Teacher Wraparound Edition, Student Activity Guide, downloadable resources, and Spanish glossary.



#### VitalSource®



Bookshelf by VitalSource® is a best-in-class eText platform where students get instant access to their Pearson eTextbook with tools to enhance learning, retention, and mastery. Features include: flashcards, highlighting, note taking, read aloud, offline access, and accessibility support. Students and instructors can learn anywhere with ease.

## **Table of Contents:**

The role of the nursing assistant

Chapter 1 The History of Nursing

**Chapter 2** Finding the Right Occupation for You

**Chapter 3** Nursing and the Health Care System

Chapter 4 Developing Employability Skills

Chapter 5 Preparing for a Career

Chapter 6 Skills for Professional Success

Chapter 7 Communication Skills for Nursing

Chapter 8 Relating to Your Patients

**Chapter 9** Legal and Ethical Responsibilities of the

**Nursing Assistant** 

Safety for the patient and the nursing assistant

Chapter 10 Infection Control

Chapter 11 Environmental Safety, Accident Prevention,

and Disaster Plans

Chapter 12 Emergency Situations

Basic nursing skills

**Chapter 13** Body Systems and Common Diseases

Chapter 14 Vital Signs

 $\textbf{Chapter 15} \qquad \text{Positioning}, \textbf{Moving}, \textbf{and} \, \textbf{Ambulation}$ 

**Chapter 16** Admission, Transfer, and Discharge

Providing personal care and comfort to the patient

Chapter 17 The Patient's Environment

Chapter 18 Hygiene and Grooming

Chapter 19 Special Skin Care

Chapter 20 Nutrition

Chapter 21 Elimination Need

Chapter 22 Specimen Collection and Testing

Chapter 23 AM and PM Care

Chapter 24 Restorative Care and Rehabilitation

Specialized care procedures

**Chapter 25** Additional Patient Care Procedures

Chapter 26 Preoperative and Postoperative Care

Chapter 27 Subacute Care

Chapter 28 Special Skills in Long-Term Care

Chapter 29 Death and Dying

#### **ISBN List**

9780135382394	Student Edition (HS Hardcover)	9780135463628	eTextbook access code card
9780135463642	Student Edition with eText access code card	9780135463611	Six (6) eTextbook access code cards
9780135463659	Student Edition with six (6) eText access code cards	9780135382431	Student Activity Guide

# **Curriculum Scope & Sequence**

## Scope & Sequence – Pearson: Health Science Fundamentals, 4<sup>th</sup> edition, ©2024

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.

Course Description: This textbook offers a thorough introduction to the knowledge, skills, and ethical responsibilities required for a successful career in health care. Beginning with the history of medicine and the expectations of modern health care workers, it explores the structure of health care systems, career planning, employability, and the legal and ethical standards guiding professional behavior. Students gain insight into wellness, communication, teamwork, and cultural competence, followed by essential academic foundations in medical terminology, nutrition, infection control, and the scientific process. Detailed chapters cover anatomy, physiology, human development, and mental health. Practical skills are developed through instruction in clinical procedures, patient and employee safety, vital signs, laboratory techniques, pharmacology, therapeutic and rehabilitative methods, and dental assisting. With an emphasis on professionalism, compassion, and accuracy, the textbook equips students to enter the health care field with confidence and competence.

**NOTE:** This is a suggested scope and sequence for the course content.

Total Number of Periods	X periods	*Schedule calculations based on 175/180 calendar days. Scope and
Total Number of Minutes	7,875 minutes	sequence allows additional time for guest speakers, student presentations,
Total Number of Hours	131.25 hours*	field trips, remediation, extended learning activities, etc.
Unit Number, Title, and Brief Description	# of Class Periods* (assumes 45-minute periods) Total minutes per	Standards
Unit 1: Introduction to Being a Health Care Worker	unit 120 minutes 3 periods	(1) Unit 4: Health Care Delivery Systems  a. Relate the importance of lifelong learning to career success.  i. Considering 21st-century emergent technology (e.g.,
The chapter "Introduction to Being a Health Care Worker" provides students with a foundational understanding of both the historical development of health care and the expectations placed on modern health care		artificial intelligence, automation, telehealth, robotics, etc.).

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
professionals. The first section explores how medical knowledge has evolved over thousands of years, highlighting key scientific contributions, ethical developments, and the impact of past discoveries on current medical practices and technologies. Students learn to appreciate the progress in medicine by examining health care from primitive times through the twentieth and twenty-first centuries. The second section emphasizes the responsibilities and standards required of today's health care workers, including professional appearance, confidentiality, and emotional readiness. By understanding both the history of health care and the qualities needed in the profession, students are better prepared to pursue meaningful careers in this vital field.		<ul> <li>ii. Develop an oral and/or written report explaining the importance of lifelong learning in maintaining career relevance and advancement.</li> <li>(2) Unit 6: Legal and Ethical Practices in Health Care <ul> <li>a. Identify cultural, social, and ethnic diversity within the health care environment.</li> <li>i. Within a role-play situation, demonstrate respectful and empathetic treatment of all patients and clients.</li> </ul> </li> </ul>
Unit 2: Understanding Health Care Systems  The chapter "Understanding Health Care Systems" introduces students to the broad network of organizations, services, and professionals that make up the modern health care industry. In the first section, students explore the scope and structure of health care providers, including the economic impact of health services, various outpatient	90 minutes 2 periods	<ul> <li>(1) Unit 3: Career Preparation <ul> <li>a. Conduct a personality test or review previous results to facilitate discussion of individualized careers individualized careers.</li> <li>(2) Unit 4: Health Care Delivery Systems <ul> <li>a. Research and discuss health care delivery systems and health organizations.</li> <li>i. Differentiate between health care delivery systems, including nonprofit and for-profit facilities</li> </ul> </li> </ul></li></ul>

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
care options, and the importance of	1. Hospitals
organizational charts and chains of	2. Ambulatory/outpatient clinics
command. The section also highlights the	3. Long-term care
roles of government agencies, wellness	4. Home health
initiatives, and preventive care in shaping	5. Medical and dental offices
service delivery. The second section focuses on health care systems and the challenges of	6. Behavioral and mental health services
rising costs, examining how reforms and	7. Public health
innovations aim to improve access and	ii. Identify health organizations and their respective
efficiency. Students learn about managed	roles.
care, cost-control strategies, and different	1. Government:
types of insurance models, while considering	a. Centers for Disease Control and
how trends such as aging populations and	Prevention (CDC), Occupational Safety
technological advancements influence	and Health Administration (OSHA),
system design and delivery. This chapter provides a critical foundation for	U.S. Food and Drug Administration
understanding how health care is organized,	(FDA), National Institute of Health
financed, and accessed in today's world.	(NIH), Centers for Medicare and
	. ,
	Medicaid Services (CMS), U.S. Public Health Service (USPHS), U.S
	Department of Veteran's Affairs (VA)
	2. Nonprofit organizations:
	a. March of Dimes, American Heart
	Association, American Diabetes
	Association, American Red Cross,
	Alzheimer's Association, American
	Lung Assoc

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		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		3. Global:
		a. World Health Organization (WHO)
		b. Relate the importance of lifelong learning to career success.
		(3) Unit 6: Legal and Ethical Practices in Health Care
		a. Utilize procedures for reporting activities and behaviors that
		affect the health, safety, and the welfare of others.
		i. Discuss the chain of command for reporting issues.
Unit 3: Finding the Right Occupation for You	130 minutes 3 periods	(1) Unit 3: Career Preparation
The chapter "Finding the Right Occupation for You" guides students through the process of identifying and preparing for a career in the health care field. The first section, "Career Search," emphasizes the importance of understanding one's interests, values, and abilities in selecting a suitable health care occupation. Students learn how to use various resources to research career options, develop a career plan, and complete an academic roadmap aligned with their goals. The second section, "Overview of Careers," provides a broader look at the expanding health care industry, detailing how career opportunities are grouped within the Health Science career cluster. Students explore five key pathways—therapeutic, diagnostic,		<ul> <li>a. Explore various careers in the health care field.  i. Choose at least three specific careers from the list created in Unit 4.1.  ii. Research the educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information of each one.  iii. Based on research, develop a presentation explaining the three careers and why they were chosen</li> <li>b. Explore the various career options in the health care field.  i. Research and list various career options.  1. Emergency services  2. Respiratory care  3. Medical services</li> </ul>
health informatics, support services, and biotechnology research and development—		<ul><li>4. Nursing services</li><li>5. Laboratory services</li></ul>

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		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
and examine examples of occupations in		6. Medical imaging
each category. Together, these sections help		7. Health information management
students make informed decisions about		c. Relate the importance of lifelong learning to career success.
their future roles in the health care workforce.		i. Consider emergent technology (e.g., artificial
workforce.		intelligence, automation, telehealth, robotics, etc.).
		ii. Develop an oral and/or written report explaining the
		importance of lifelong learning in maintaining
		career relevance and advancement.
		(2) Unit 7: Communication and Teamwork
		a. Describe the concepts of effective communication.
		i. Demonstrate elements of proper written and
		electronic communication (e.g., spelling, grammar,
		and formatting).
Unit 4: Employability and Leadership	140 minutes	(1) Unit 1: Orientation and Introduction to Student
	3 periods	a. Describe the purpose of the course and related student
The chapter "Employability and Leadership"		organizations.
prepares students to succeed in the		b. Identify student and course expectations.
workplace by focusing on essential job- seeking skills, professional behavior, and		c. Explore the health science student organization, HOSA.
ongoing career growth. It begins with		i. Describe parliamentary procedures.
practical guidance on locating job		ii. Discuss officer roles and responsibilities.
opportunities, preparing resumes and cover		d. Discuss leadership and personal development in accordance
letters, completing applications, and		with HOSA guidelines.
navigating the interview process. Students		(2) Unit 3: Career Preparation
then explore the qualities employers value in		a. Conduct practice interviews or answer a list of possible
their staff, including reliability, teamwork, and goal-setting, and learn how to maintain		interview questions.

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Course Name: Health Science Core 1 (995102)	· · · · ·	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
employment through professional conduct.		(3) Unit 7: Communication and Teamwork
The chapter also emphasizes the benefits of		a. Compare the roles and responsibilities of individual
joining career and technical student		members as part of the health care team.
organizations and professional associations,		i. Describe roles and responsibilities of team members.
such as HOSA, to develop leadership skills and remain engaged in the health care		1. Examples of health care teams in a hospital
community. Finally, students learn the		and clinic setting.
importance of lifelong learning through		2. Responsibilities of team members
continuing education, training, and career		3. Benefits of teamwork
planning, helping them adapt to industry		b. Explain the principles of interacting effectively and
changes and pursue advancement		sensitively with all members of the health care team.
opportunities. This chapter equips students		i. Recognize methods for building positive team
with the tools and mindset necessary to		relationships, including mentorships and
launch, sustain, and grow a successful career in health care.		teambuilding.
in nearth care.		ii. Analyze attributes and attitudes of an effective
		leader.
		Characteristics: interpersonal skills, focused
		on results, positive
		Types: autocratic, democratic, laissez-faire
		3. Roles: sets vision, leads change, manages
		accountability
Unit 5: Understanding Your Legal	100 minutes	(1) Unit 2: Safety in Health Care
Obligations	2 periods	• • • • • • • • • • • • • • • • • • • •
	2 pc. 1003	<ul><li>a. Identify common safety hazards.</li><li>(2) Unit 6: Legal and Ethical Practices in Health Care</li></ul>
The chapter "Understanding Your Legal		, ,
Obligations" introduces students to the vital		a. Analyze legal responsibilities and implications of criminal
legal principles and responsibilities that guide		and civil law.

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	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
health care professionals in their daily work.	i. Define and discuss torts in relation to health care.
Students begin by examining the Patient's Bill	1. Malpractice
of Rights, learning how to respect and	2. Negligence
balance patient rights with the operational	3. Assault and battery
needs of health care facilities. The chapter	4. Invasion of privacy
explores the significance of licensure,	5. Abuse
certification, confidentiality, and legal	6. Defamation of character (libel, slander)
documentation, highlighting how these	
elements contribute to high-quality and	7. False imprisonment
ethical care. Students also study various laws that impact health care, including those	b. Describe and demonstrate legal practices associated with
related to patient privacy and advance	health care.
directives, and learn how to recognize and	i. Apply the standards for safety, privacy, and
report illegal or unethical behavior. In the	confidentiality of health information, including
final section, the focus shifts to legal	topics such as the Health Insurance Portability and
classifications, including civil and criminal	Accountability Act and privileged communications
law, scope of practice, and medical	ii. Describe advance directives, including topics such as
malpractice, with examples of common legal	living wills and durable power of attorney.
infractions in the medical field. This chapter	iii. Define types of consent/contracts, including
equips students with a foundational	informed consent, implied contracts, and expressed
understanding of legal accountability, helping	contracts.
them protect themselves, their patients, and	
their workplaces.	iv. Research and discuss the meaning of scope of
	practice.
	c. Use with Competency 2:
	i. Summarize the American Hospital Association's
	Patient Care Partnership (for acute care, formerly

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		Recommended Prerequisites: Click or tap here to enter text.
		known as Patient's Bill of Rights) and the Resident's
		Bill of Rights (for long-term care).
		<ol> <li>Discuss scenarios and laws concerning various types</li> </ol>
		of harassment/violence in the workplace
		d. Use with Competency 4:
		<ul> <li>i. After completing each objective, facilitate a student led debate on one or multiple of the topics listed in the competency.</li> </ul>
Unit 6: Medical Ethics	70 minutes	(1) Unit 6: Legal and Ethical Practices in Health Care
The chapter "Medical Ethics" emphasizes the importance of ethical awareness and decision-making for health care professionals. In the first section, students learn how ethical behavior—distinct from legal compliance—contributes to quality patient care, respectful workplace relationships, and a strong health care team. The section introduces the health care code of ethics, explores professional responsibilities to employers and co-workers, and highlights communication practices that support patient satisfaction. The second section focuses on the responsibility of health care workers to recognize and report unethical or unsafe conduct in their work environment. Students examine expectations for respectful behavior, understand when	2 periods	<ul> <li>a. Recognize and discuss ethical boundaries within the health care environment. <ol> <li>i. Differentiate between ethical and legal issues impacting health care.</li> <li>ii. Identify and explain ethical dilemmas associated with organ donation, invitro fertilization, euthanasia, stem cell research, and vaccinations.</li> </ol> </li> <li>b. Identify cultural, social, and ethnic diversity within the health care environment. <ol> <li>i. Compare religious, spiritual, and cultural—including ethnicity, race, religion, and gender—values as they impact health care.</li> </ol> </li> </ul>

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		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
and how to report concerns, and identify		
trusted resources for support. Through this		
chapter, students gain a deeper		
understanding of how ethics guide daily		
actions and contribute to a culture of safety,		
trust, and professionalism in health care		
settings.		
Unit 7: Wellness	190 minutes	(1) Unit 7: Communication and Teamwork
	4 periods	a. Describe the concepts of effective communication.
The chapter "Wellness" highlights the		
importance of promoting physical,		
emotional, and cultural well-being in health		
care settings. In the first section, students		
explore holistic health, learning how the		
integration of mind, body, spirit, and social		
connection supports both personal and		
patient wellness. The section encourages		
preventive care and wellness-based		
approaches over purely disease-oriented		
treatment. The second section focuses on		
understanding human needs, helping		
students recognize the essential physiological		
and psychological factors that contribute to		
stability and healing. Topics include Maslow's		
hierarchy of needs, defense mechanisms, and		
the benefits of pet-facilitated therapy. The		
final section addresses the importance of		
cultural competence in health care, teaching		
students how cultural beliefs and practices		

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influence communication, behavior, and patient care. By understanding and respecting cultural differences, health care workers can build stronger relationships with patients and provide more effective and compassionate care.  Unit 8: Teamwork	60 minutes	(1) Unit 7: Communication and Teamwork
The chapter "Teamwork" emphasizes the importance of effective collaboration within health care environments. As managed care systems and other providers rely increasingly on health care teams, understanding how to work well with others has become a critical skill. Students explore the structure and roles of various health care teams, learning how strong communication, cooperation, and shared responsibility contribute to cohesive and productive group dynamics. The chapter also addresses the causes of workplace conflict and equips students with practical conflict resolution strategies, highlighting how verbal and nonverbal communication can support positive interactions. These teamwork skills are essential not only in professional health care settings but in everyday life as well.	1 period	a. Compare the roles and responsibilities of individual members as part of the health care team.  i. Describe roles and responsibilities of team members.  ii. Recognize and demonstrate characteristics of effective teams.  1. Active participation 2. Cultural humility 3. Reliability 4. Civility 5. Flexibility 6. Trust 7. Commitment 8. Open to feedback 9. Collaboration 10. Positive attitude b. Explain the principles of interacting effectively and sensitively with all members of the health care team. DOK3 i. Apply effective techniques for managing team conflict.

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		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		1. Negotiation
		2. Clear expectations
		3. Assertive communication
		4. Mediation
Unit 9: Effective Communication	250 minutes	(1) Unit 7: Communication and Teamwork
	6 periods	a. Describe the concepts of effective communication.
The chapter "Effective Communication"		i. Interpret verbal and nonverbal communication.
explores the many ways health care workers		ii. Recognize barriers to communication, including
share, receive, and record information to		physical disabilities (aphasia, hearing loss, impaired
ensure quality patient care and smooth		vision), psychological barriers (attitudes, bias,
facility operations. The first section covers interpersonal communication skills for		prejudice, stereotypes), language barriers.
working with people of all ages, emphasizing		iii. Differentiate subjective and objective information.
listening, verbal and nonverbal cues, and		iv. Recognize the elements of communication using a
overcoming communication barriers. Next,		sender-receiver model.
students learn how to use modern		
communication technologies—such as		v. Demonstrate speaking and active listening skills.
phones, fax machines, email, and the		b. Compare the roles and responsibilities of individual
Internet—to exchange essential information		members as part of the health care team.
quickly and efficiently. The chapter also		i. Recognize and demonstrate characteristics of
introduces the role of computers in health		effective teams.
care, showing how they support diagnostics,		1. Active participation
record keeping, research, and ethical data management. In addition, students gain key		2. Cultural humility
skills in patient observation and		3. Reliability
documentation, learning how to report		4. Civility
accurately and follow charting guidelines.		5. Flexibility
The final section focuses on administrative		6. Trust
communication tasks like scheduling, filing,		

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· · · · · · · · · · · · · · · · · · ·		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
and organizing medical records, all of which		7. Commitment
support care delivery and keep offices		8. Open to feedback
running smoothly. Altogether, this chapter		9. Collaboration
prepares students to communicate		10. Positive attitude
effectively in both clinical and administrative		c. Explain the principles of interacting effectively and
health care roles.		sensitively with all members of the health care team.
		•
		i. Apply effective techniques for managing team
		conflict.
		1. Gather the facts
Unit 10: Medical Terminology	100 minutes	(1) Unit 8: Medical Terminology and Abbreviations
	2 periods	a. Introduce appropriate medical terminology and
The chapter "Medical Terminology"		abbreviations as found in Appendix C.
introduces students to the language used by		i. Use roots, prefixes, and suffixes to communicate
health care professionals to communicate		information.
efficiently and accurately. In the first section,		ii. Use medical abbreviations to communicate
students learn the structure of medical terms		information.
by studying word elements—prefixes, roots, and suffixes—and how these elements are		miormation.
combined to form meaningful terms.		
Understanding and using this specialized		
vocabulary allows health care workers to		
document care, follow instructions, and		
exchange critical information clearly and		
professionally. The second section focuses on		
common medical abbreviations, which are		
frequently used to save time and space in		
written communication. Students practice		
recognizing, defining, and applying these		

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
abbreviations in health care settings. Mastery		
of medical terminology is essential for		
success in any health care career, making this		
chapter a critical step in students'		
professional development.		
Unit 11: Medical Math	120 minutes	
	3 periods	
The chapter "Medical Math" equips students		
with essential mathematical skills used daily		
in health care settings. The first section		
reviews core math concepts such as addition,		
subtraction, fractions, decimals, and		
percentages, all of which are necessary for		
tasks like dosage calculations and unit		
conversions. In the second section, students		
learn the metric system, the standard		
measurement system in health care, and		
practice converting between metric and		
standard units for weight, height, and		
volume. The final section introduces the 24-		
hour clock, also known as military time,		
which is used to prevent confusion in		
documenting and communicating patient		
care times. By mastering these math skills,		
students can ensure accuracy, safety, and		
efficiency in their future health care roles.		

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<b>Course Name:</b> Health Science Core 1 (995102)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Unit 12: Measurement and the Scientific	80 minutes	
Process	2 periods	
The chapter "Measurement and the Scientific		
Process" emphasizes the importance of		
scientific thinking, accurate measurement,		
and data analysis in the health care field. In		
the first section, students explore the		
scientific method, including its eight basic		
steps and the role of controlled experiments,		
highlighting the need for clear		
communication of research findings. The		
second section focuses on measurement		
tools and techniques used in clinical settings,		
helping students understand how to record		
length, weight, volume, temperature, and		
time with accuracy and precision. Students		
also learn about estimating, rounding, and		
how measurement errors can affect the		
validity of results. The final section		
introduces methods for organizing and		
interpreting data using tables, graphs, and		
charts—key tools for tracking patient		
information and presenting clinical data.		
Together, these skills prepare students to		
apply scientific reasoning and quantitative		
analysis in their future health care roles.		

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Unit 13: Your Body and How It Functions	490 minutes	(1) Unit 3: Career Preparation
	11 periods	a. Explore the various career options in the health care field.
The chapter "Your Body and How It		i. Sports medicine
Functions" provides students with a		ii. Nutrition and dietetics
comprehensive overview of human anatomy		(2) Unit 9: Body Organization
and physiology, equipping future health care workers with the foundational knowledge		a. Describe the basic organization of the body.
needed to understand and support patient		i. Identify the basic levels of organization of the human
health. Beginning with the relationship		body.
between cells, tissues, organs, and body		1. Chemical
systems, the chapter explores each major		2. Cellular
system in detail—including the skeletal,		3. Organs
muscular, circulatory, lymphatic, respiratory,		
digestive, urinary, endocrine, nervous,		4. Systems
reproductive, and integumentary systems—		5. Organism
explaining their structures, functions, and		b. Discuss the tissue organization of the body. DOK1
common disorders. Students also examine		i. Identify the four major categories of tissues and
the role of genetics in health and disease,		their respective locations, structures, and basic
gaining insight into DNA, heredity, and inherited conditions. By learning how each		functions.
system supports life and interacts with		1. Nerve
others, students develop the ability to		2. Epithelium
recognize signs of illness, provide informed		3. Muscle (cardiac, smooth, skeletal)
care, and communicate effectively with		4. Connective (ligaments, tendons, facia)
patients and the health care team. This		c. Identify the body planes, directional terms, cavities,
chapter lays the groundwork for advanced		quadrants, and regions.
medical study and clinical practice.		i. Body planes: sagittal, midsagittal, coronal/frontal,
		transverse/horizontal
		ti alisvei se/fiorizoritai

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	ii. Directional terms: superior, inferior,
	anterior/ventral, posterior/dorsal, medial, lateral,
	proximal, distal, superficial, deep, cephalic, caudal
	iii. Cavities: dorsal, cranial, nasal, oral, orbital, spinal,
	thoracic, abdominal, pelvic
	iv. Quadrants: upper right, lower right, upper left, lower
	left
	v. Regions: Right/left hypochondriac, right/left lumbar,
	right/left iliac, epigastric, umbilical, hypogastric
	(3) Unit 10: Integumentary System
	a. Discuss the structures and functions of the integumentary
	system.
	i. Identify the parts comprising the integumentary
	system and their respective functions.
	1. Layers: epidermis, dermis, subcutaneous
	2. Structures: sudoriferous glands, sebaceous
	glands, hair follicles, hair shaft
	3. Functions: protection, sensory perception,
	temperature regulation (vasodilation,
	vasoconstriction), storage, absorption,
	excretion, production
	ii. Define and discuss pigmentation and related topics.
	1. Melanin
	2. Carotene
	3. Albino

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	iii. Define and discuss skin discoloration and related
	topics:
	1. Erythema
	2. Jaundice
	3. Cyanosis
	b. Explain diseases and disorders of the integumentary system
	and related signs, symptoms, treatment, and prevention
	methods.
	i. Identify the general signs, symptoms, treatment, and
	prevention methods associated with diseases and
	disorders of the integumentary system.
	1. Acne vulgaris
	2. Athlete's foot
	3. Basal cell carcinoma
	4. Dermatitis
	5. Eczema
	6. Impetigo
	7. Melanoma
	8. Psoriasis
	9. Ringworm
	10. Squamous cell carcinoma
	11. Verrucae
	c. Research the impact of emerging technology on the
	integumentary system.
	(4) Unit 11: Skeletal System

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	a. Compare the structures and functions of the skeletal system
	with its relationship to movement.
	i. Identify the axial and appendicular bones.
	ii. Identify the parts of a bone.
	1. Diaphysis
	2. Endosteum
	3. Epiphysis
	4. Medullary canal
	5. Periosteum
	6. Red marrow
	7. Yellow marrow
	iii. Explain the functions of the skeletal system.
	1. Framework
	2. Protection
	3. Levers
	4. Production of blood cells
	5. Storage
	iv. Identify the types of joints and their related
	movements.
	1. Diarthrosis or synovial
	2. Amphiarthrosis
	3. Synarthrosis
	b. Discuss diseases and disorders of the skeletal system and
	related signs, symptoms, treatment, and prevention
	methods.

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	i. Identify the general signs, symptoms, treatment, and
	prevention methods associated with skeletal
	diseases, disorders, and injuries.
	1. Bursitis
	2. Osteomyelitis
	3. Osteoporosis
	4. Osteoarthritis
	5. Rheumatoid arthritis
	6. Sprain
	7. Ruptured disk
	8. Dislocation
	9. Spinal curvatures: scoliosis, lordosis, and
	kyphosis
	10. Fractures: stress, comminuted, compound or
	open, simple or closed, depressed, green
	stick, impacted, spiral
	c. Research the impact of emerging technology on the skeletal
	system.
	(5) Unit 12: Muscular System
	a. Compare the structures and functions of the muscular
	system with its relationship to movement.
	i. Identify the three types of muscle.
	1. Cardiac
	2. Visceral/smooth
	3. Skeletal

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	ii. Define the characteristics of skeletal muscle.
	1. Excitability
	2. Contractibility
	3. Extensibility
	4. Elasticity
	iii. Demonstrate active/passive range of motion,
	including adduction, abduction, flexion, extension,
	rotation, and circumduction.
	b. Discuss diseases, disorders, and injury of the muscular
	system and related signs, symptoms, and treatment
	methods.
	i. Identify the general signs, symptoms, treatment, and
	prevention methods associated with muscular
	diseases and disorders.
	1. Fibromyalgia
	2. Muscle spasms
	3. Muscular dystrophy
	4. Myasthenia gravis
	5. Strain
	c. Research the impact of emerging technology on the
	muscular system.
	(6) Unit 13: Cardiovascular System
	a. Identify and discuss the structures and functions of the
	cardiovascular system and their role in maintaining
	homeostasis.

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	i. Identify the components of blood and their
	respective functions.
	1. Plasma
	2. Erythrocytes
	3. Hemoglobin
	4. Leukocytes
	5. Thrombocytes
	ii. Identify the type of blood vessels and the action of
	each.
	1. Aorta
	2. Arteries
	3. Arterioles
	4. Capillaries
	5. Inferior vena cava
	6. Pulmonary artery
	7. Pulmonary veins
	8. Superior vena cava
	9. Veins
	10. Venules
	iii. Identify the anatomy of the heart.
	1. Layers: endocardium, myocardium,
	pericardium/epicardium
	2. Structures: septum, right/left atriums,
	right/left ventricles, tricuspid

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	valve, pulmonary valve, bicuspid/mitral valve,
	aortic valve
	iv. Describe the electrical conduction pathway.
	1. SA node
	2. AV node
	3. Bundle of HIS
	4. Right and left bundle branches
	5. Purkinje Fibers
	v. Describe the pathway of pulmonary and systemic
	circulation.
	vi. Define systole and diastole.
	b. Discuss diseases and disorders of the cardiovascular system
	and related signs, symptoms, treatment, and prevention
	methods.
	i. Identify the general signs, symptoms, treatment, and
	prevention methods associatedwith cardiovascular
	diseases and disorders.
	1. Arteriosclerosis
	2. Atherosclerosis
	3. Congestive heart failure
	4. Hypertension
	5. Iron deficiency anemia
	6. Leukemia
	7. Myocardial infarction
	8. Sickle cell anemia

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	c. Research the impact of emerging technology on the
	cardiovascular system.
	(7) Unit 14: Respiratory System
	a. Describe the structures and functions of the respiratory
	system.
	<ol> <li>Define inspiration and expiration.</li> </ol>
	ii. Identify the structures of the respiratory system and
	their respective functions.
	1. Alveoli
	2. Bronchi
	3. Bronchioles
	4. Epiglottis
	5. Larynx
	6. Lungs
	7. Nasal cavity
	8. Nasal septum
	9. Nose
	10. Pharynx
	11. Pleura
	12. Sinuses
	13. Trachea
	iii. Differentiate among internal, external, and cellular
	respiration.
	b. Discuss diseases and disorders of the respiratory system and
	related signs, symptoms, and treatment methods.

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	i. Identify the general signs, symptoms, treatment, and
	prevention methods associated with respiratory
	diseases and disorders.
	1. Asthma
	2. Bronchitis
	3. COPD
	4. Covid 19
	5. Emphysema
	6. Influenza
	7. Lung cancer
	8. Pneumonia
	9. Sleep apnea
	10. Tuberculosis
	c. Research the impact of emerging technology on the
	respiratory system.
	(8) Unit 15: Digestive System
	a. Describe the structures and functions of the digestive
	system.
	i. Describe the structures comprising the alimentary
	canal and their respective functions regarding the
	digestive process (pathway of food, digestion,
	nutrient absorption).
	1. Mouth: teeth, tongue, hard palate, soft
	palate
	2. Pharynx

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	3. Esophagus
	4. Cardiac/esophageal sphincter
	5. Stomach (include rugae)
	6. Pyloric sphincter
	7. Small intestine (include villi)
	a. Duodenum
	b. Ileum
	c. Jejunum
	8. Large intestine
	a. Cecum
	b. Ascending colon
	c. Transverse colon
	d. Descending colon
	e. Sigmoid colon
	9. Rectum
	10. Anus
	ii. Describe the accessory structures of the digestive
	system and their respective functions regarding the
	digestive process (pathway of food, digestion,
	nutrient absorption).
	1. Salivary glands
	2. Pancreas
	3. Liver
	4. Appendix
	5. Gallbladder

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	b. Discuss diseases and disorders of the digestive system and
	related signs, symptoms, treatment, and prevention
	methods.
	i. Identify the general signs, symptoms, treatment, and
	prevention methods associated with diseases and
	disorders of the digestive system.
	1. Appendicitis
	2. Cholecystitis
	3. Cirrhosis
	4. Diverticulitis
	5. Gastric ulcer
	6. GERD
	7. Hepatitis type B (HBV)
	8. Pancreatitis
	9. Ulcerative colitis
	c. Research the impact of emerging technology on the
	digestive system.
	(9) Unit 16: Urinary System
	a. Explain the structures and functions of the urinary system as
	they relate to the formation, composition, and elimination
	of urine.
	i. Identify urinary system structures and their
	respective functions.
	1. Bladder (include rugae)
	2. Bowman's capsule

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	3. Cortex
	4. Glomerulus
	5. Hilum
	6. Kidneys
	7. Medulla
	8. Nephrons
	9. Renal pelvis
	10. Ureters
	11. Urethra
	12. Urinary meatus
	b. Discuss diseases and disorders of the urinary system and
	related causes, signs, symptoms, treatment, and prevention
	methods.
	i. Identify the general causes, signs, symptoms,
	treatment, and prevention methods associated with
	diseases of the urinary system.
	1. Cystitis
	2. Glomerulonephritis
	3. Pyelonephritis
	4. Renal calculus
	5. Renal failure
	6. Uremia
	7. Urethritis
	ii. Define disorders of the urinary system.
	1. Albuminuria

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	2. Anuria
	3. Dysuria
	4. Hematuria
	5. Incontinence
	6. Nocturia
	7. Oliguria
	8. Polyuria
	9. Proteinuria
	10. Pyuria
	11. Retention
	c. Research the impact of emerging technology on the urinary
	system.
	(10) Unit 17: Lymphatic System
	a. Explain the structures and functions of the lymphatic
	system.
	i. Identify structures of the lymphatic system and their
	respective functions.
	1. Tonsils
	2. Spleen
	3. Lymph nodes
	4. Thymus
	b. Discuss diseases and disorders of the lymphatic system and
	related causes, signs, symptoms, treatment, and prevention
	methods.

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	i. Identify the general causes, signs, symptoms,
	treatment, and prevention methods associated with
	diseases and disorders of the lymphatic system.
	1. Adenitis
	2. Hodgkin's disease
	3. Splenomegaly
	4. Tonsillitis
	c. Research the impact of emerging technology on the
	lymphatic system.
	(11) Unit 18: Nervous System
	a. Describe the structures and functions of the nervous
	system.
	i. Identify the major structures of the nervous system
	and their respective functions.
	1. Cerebellum
	2. Cerebrum
	3. Midbrain: pons, medulla oblongata
	4. Diencephalon: thalamus, hypothalamus
	5. Spinal cord
	6. Meninges: dura mater, arachnoid membrane,
	pia mater
	7. Ventricles
	8. Cerebral spinal fluid
	ii. Describe the divisions of the nervous system.
	1. Central nervous system

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	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	2. Peripheral nervous system
	3. Sympathetic
	4. Parasympathetic
	iii. Identify the structures of a neuron and the
	conduction process of a nerve impulse.
	1. Dendrites
	2. Axon
	3. Myelin sheath
	4. Synapse
	5. Neurotransmitters
	b. Discuss diseases and disorders of the nervous system and
	related causes, signs, symptoms, treatment, and prevention
	methods.
	i. Identify the general causes, signs, symptoms,
	treatment, and prevention methods associated with
	diseases and disorders of the nervous system
	<ol> <li>Alzheimer's disease</li> </ol>
	2. Amyotrophic lateral sclerosis
	3. Cerebral palsy
	4. Cerebrovascular accident
	5. Dementia
	6. Epilepsy
	7. Meningitis
	8. Multiple sclerosis
	9. Parkinson's disease

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	10. Shingles
	11. Traumatic Brain Injury/Concussion
	c. Research the impact of emerging technology on the nervous
	system. DOK3
	(12) Unit 19: Endocrine System
	a. Identify the structures and functions of the endocrine
	system. DOK1
	i. Differentiate between endocrine and exocrine.
	ii. Identify the structures comprising the endocrine
	system and their respective functions.
	b. Discuss diseases and disorders of the endocrine system and
	related causes, signs, symptoms, treatment, and prevention
	methods. DOK2
	i. Identify the general causes, signs, symptoms,
	treatment, and prevention methodsassociated with
	diseases and disorders of the endocrine system.
	1. Acromegaly
	2. Cushing's syndrome
	3. Diabetes mellitus (Type 1 and 2)
	4. Dwarfism
	5. Giantism
	6. Graves' disease
	7. Hyperthyroidism
	8. Hypothyroidism

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	c. Research the impact of emerging technology on the
	endocrine system. DOK3
	i. Endocrine Table
	ii. Gland
	iii. Hormone
	iv. Action
	v. Pituitary (Anterior Lobe)
	vi. ACTH-adrenocorticotropic
	1. Stimulates growth and secretion of the
	cortex of the adrenal gland
	vii. TSH-thyrotropin
	1. Stimulates growth and secretion of the
	thyroid gland
	viii. GH-somatotropin
	1. Growth hormone; stimulates normal body
	growth
	ix. Pituitary (Posterior Lobe)
	x. ADH-vasopressin
	1. Antidiuretic hormone; promotes
	reabsorption of water in kidneys,
	constrictsblood vessels
	xi. Thyroid
	xii. Thyroxine & tri-iodothyronine

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	1. Increase metabolic rate; stimulate physical
	and mental growth; regulate metabolism of
	carbohydrates, fats, and proteins
	xiii. Adrenal (Cortex)
	xiv. Glucocorticoids:
	1. Cortisol-hydrocortisone
	2. Cortisone
	a. Aide in metabolism of proteins, fats,
	and carbohydrates; increase amount
	of glucose in blood; provide
	resistance to stress; depress immune
	response (anti- inflammatory)
	xv. Gonadocorticoids:
	1. Estrogens
	2. Androgens
	a. Act as sex hormones
	b. Stimulate female sexual
	characteristics
	c. Stimulate male sexual characteristics
	xvi. Adrenal (Medulla)
	xvii. Epinephrine (adrenaline)
	1. Activates sympathetic nervous system; acts
	in times of stress to increase cardiac output
	and increase blood pressure
	xviii. Norepinephrine

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	1. Activates body in stress situations
	xix. Pancreas
	xx. Insulin
	1. Used in metabolism of glucose (sugar) by
	promoting entry of glucose intocells to
	decrease blood glucose levels; promotes
	transport of fatty acids and amino acids
	(proteins) into the cells
	(13) Unit 20: Sensory Organs
	a. Identify the basic structures and functions associated with
	the sensory organs.
	i. Identify sensory organs' structures and describe
	their respective functions.
	1. Eye:
	a. Aqueous humor
	b. Choroid coat
	c. Conjunctiva
	d. Cornea
	e. Iris
	f. Lacrimal glands
	g. Lens
	h. Pupil
	i. Retina
	j. Sclera
	k. Vitreous Humor

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	2. Ear:
	a. Auditory canal
	b. Cochlea
	c. Eustachian Tube
	d. Organ of Corti
	e. Ossicles
	f. Pinna/Auricle
	g. Semicircular canal
	h. Tympanic membrane
	3. Tongue:
	a. Papillae
	4. Nose:
	a. Olfactory receptors
	b. Discuss diseases and disorders of the sensory organs.
	i. Identify the general causes, signs, symptoms,
	treatment, and prevention methods associated with
	diseases and disorders of the sensory organs.
	1. Amblyopia
	2. Astigmatism
	3. Cataract
	4. Conjunctivitis
	5. Glaucoma
	6. Hearing loss (conductive, sensory)
	7. Meniere's disease
	8. Otitis externa

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	9. Otitis media
	10. Otosclerosis
	11. Strabismus
	c. Research the impact of emerging technology on the sensory
	organs.
	(14) Unit 21: Reproductive System
	a. Discuss the structures and functions of the male and female
	reproductive systems.
	i. Identify the major structures of the male and female
	reproductive system and their respective functions.
	1. Male:
	a. Cowper's gland
	b. Ejaculatory ducts
	c. Epididymis
	d. Penis
	e. Prostate gland
	f. Scrotum
	g. Seminal vesicles
	h. Testes
	i. Urethra
	j. Vas deferens
	2. Female:
	a. Bartholin's glands
	b. Breasts
	c. Fallopian tubes
<u> </u>	5. Tanopian taxes

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	d. Ovaries
	e. Perineum
	f. Uterus: endometrium
	g. Vagina
	h. Vulva: mons pubis, labia majora, labia
	minora
	b. Discuss diseases and disorders of the reproductive system
	and related signs, symptoms, treatment, and prevention
	methods.
	i. Identify the general signs, symptoms, treatment, and
	prevention methods associated with diseases and
	disorders of the reproductive systems.
	1. Breast cancer
	2. Cervical cancer
	3. Endometriosis
	4. Epididymitis
	5. Orchitis
	6. Ovarian cancer
	7. Pelvic inflammatory disease
	8. Premenstrual syndrome
	9. Prostate cancer
	10. Prostatic hypertrophy
	11. Testicular cancer
	12. Uterine cancer

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		ii. Identify the general signs, symptoms, treatment, and
		prevention methods associated with sexually
		transmitted infections (STIs).
		1. Human Immunodeficiency Virus
		2. Chlamydia
		3. Gonorrhea
		4. Herpes
		5. Human Papillomavirus
		6. Pubic lice
		7. Syphilis
		8. Trichomoniasis
		c. Research the impact of emerging technology on the
		reproductive system.
Unit 14: Human Growth and Development	160 minutes	(1) Unit 3: Career Preparation
	4 periods	a. Explore the various career options in the health care field.
The chapter "Human Growth and	•	DOK1
Development" explores the physical,		i. Human growth and development
emotional, and social changes individuals		ii. Rehabilitative services
experience throughout the life span, helping		ii. Reliabilitative services
health care workers provide compassionate		
and age-appropriate care. The first section		
examines developmental milestones from conception through adolescence, allowing		
students to recognize typical and atypical		
patterns of growth and behavior. The second		
section focuses on aging, highlighting the		
common physical and emotional changes		

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0 Course Requirements:. Grades 11-12.
		Prerequisites: None.  Recommended Prerequisites: Click or tap here to enter text.
that occur in later adulthood and the importance of supporting independence and wellness in older patients. The third section addresses disabilities and the role changes they bring, teaching students how to encourage adaptation and promote dignity for individuals facing physical challenges at any age. The final section prepares students to support patients at the end of life, offering insight into the emotional stages of terminal illness and the principles of hospice care. Together, these sections equip future health care workers with the understanding and empathy needed to care for individuals at every stage of life.		
Unit 15: Mental Illness  The chapter "Mental Illness" provides students with a foundational understanding of mental health disorders, their symptoms, and the methods used to treat them. The first section introduces various classifications of mental illness, including anxiety disorders, depressive and bipolar disorders, traumarelated conditions, eating disorders, and neurocognitive disorders such as Alzheimer's disease. Students learn to recognize common features of these conditions and the risk	100 minutes 2 periods	(1) Unit 3: Career Preparation  a. Explore the various career options in the health care field.  DOK1  i. Mental health

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0 Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
factors that may contribute to their		
development. The second section focuses on		
treatment options, highlighting the role of		
psychotherapy, medication, hospitalization,		
and support from national mental health		
organizations. It also discusses challenges		
such as noncompliance with medication and		
the need for specialized care for disorders		
like Alzheimer's. This chapter encourages		
empathy and awareness, preparing future		
health care workers to identify signs of		
mental illness and support individuals in		
seeking appropriate care.		
Unit 16: Nutrition	110 minutes	
	2 periods	
The chapter "Nutrition" emphasizes the		
essential role of proper nutrition in		
maintaining health and supporting recovery,		
both for health care workers and the patients		
they serve. In the first section, students learn		
the basic principles of nutrition, including the		
functions of food, the five key nutrients, and		
the importance of following dietary		
guidelines such as MyPlate. The section also		
explores health issues related to poor		
nutrition, including obesity and common		
diet-related disorders, while introducing		
students to volume conversions and		
therapeutic diets. The second section focuses		

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
more specifically on therapeutic diets used to manage various physical conditions and illnesses. Students also examine the impact of eating disorders and substance abuse on overall health. This chapter equips future health care professionals with the knowledge needed to support healthy dietary habits and understand the nutritional needs of diverse patient populations.		
Unit 17: Controlling Infection	190 minutes 4 periods	(1) Unit 5: Infection Awareness and Prevention  a. Explain the principles of infection control.
The chapter "Controlling Infection" provides	ļ	i. Research and explain:
students with the knowledge and techniques		1. Chain of infection
needed to prevent the spread of infectious		
diseases in health care settings. The first		2. Mode of transmission: direct, indirect,
section introduces microorganisms,		vectors, common vehicle (air, food, water),
explaining the differences between beneficial		health care associated infections
and harmful microbes, how they grow and		(nosocomial), opportunistic.
spread, and the signs of localized versus		3. Types of infections: endogenous, exogenous
generalized infections. The second section		4. Microorganisms: nonpathogenic, pathogenic,
focuses on aseptic techniques and Standard Precautions, emphasizing proper hygiene		aerobic, anaerobic
practices such as handwashing, the use of		ii. Classify the following microorganisms and diseases:
protective equipment, and the importance of		1. Bacterial:
maintaining a clean environment to stop the		a. Meningitis
transmission of pathogens. In the third		b. Methicillin-resistant staphylococcus
section, students learn about Transmission-		c. Pertussis

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Course Name: Health Science Core 1 (995102)	,	Course Credit: 1.0	
, ,		Course Requirements:. Grad	des 11-12.
		Prerequisites: None.	
		<b>Recommended Prerequisite</b>	es: Click or tap here to enter text.
procedures for dealing with patients or		e.	Strep throat
materials that pose a higher risk of infection.		f.	Tetanus
The final section covers bloodborne diseases,		g.	Tuberculosis
including HIV and hepatitis, and outlines		2. Funga	l:
Universal Precautions to protect health care		a.	Athlete's foot
workers from exposure. This chapter equips future professionals with critical skills to		b.	Histoplasmosis
maintain safety and prevent infection for			Ring Worm
themselves, their patients, and the broader			Thrush
community.		e.	Yeast vaginitis
			tes (Helminths):
			Hook worms or flukes
			Pin worms
			Tape worms
			tes (Rickettsia):
			Rocky Mountain spotted fever
			Typhus fever
		5. Protoz	
			Amebic dysentery
			Malaria
		6. Viruse	
			Chicken pox
			Covid 19
			Common cold
			Hepatitis (A, B, C)
		e.	Herpes

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	f. HIV
	g. Influenza (seasonal, H1N1, H5N1)
	h. Measles
	i. Mumps
	j. Polio
	k. RSV
	I. Warts
	m. West Nile virus (WNV)
	iii. Identify the levels of aseptic control.
	1. Antisepsis
	2. Disinfection
	3. Sterilization
	iv. Demonstrate the proper procedure for aseptic hand
	washing according to the CDC.
	b. Explain standard precaution based on OSHA and CDC
	regulations. DOK3
	i. Describe OSHA's blood-borne pathogen standards.
	ii. Explore employer requirements according to the
	Needle Stick Safety and Prevention Act
	c. Utilize the principles of sterile technique. DOK3
	i. Demonstrate skills related to sterile technique.
	1. Donning sterile gloves
	2. Sterile dressing
	3. Maintaining a sterile field
	4. Wrapping instruments for sterilization

Course Name: Health Science Core 1 (995102)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	d. Explain the importance of maintaining transmission-based
	isolation precautions. DOK3
	i. Identify and explain the types of isolation
	precautions needed to prevent the spread of
	communicable diseases (mentioned in 1.b.).
	1. Airborne
	2. Droplet
	3. Contact
	4. Reverse/protective
	ii. Demonstrate the proper procedure, according to the
	CDC, for donning and doffing personal protective
	equipment (PPE).
	1. Gowns
	2. Masks
	3. Goggles
	4. Gloves
	e. Research the impact of emerging technology on infection
	control. DOK3
	f. Discuss other prevalent or interesting diseases/infections,
	including:
	i. Ebola/Marburg
	ii. Zika virus
	iii. Lyme disease
	g. Research and describe the following vaccinations and
	diseases they prevent:

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		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		i. Covid 19
		ii. DTaP
		iii. Hep B
		iv. HPV
		v. Influenza
		vi. Meningitis
		vii. MMR
		viii. Monkey Pox
		ix. Polio
		x. Shingles
		xi. Smallpox
		xii. Varicella
		h. Based on the research on vaccinations, facilitate a student
		led debate on the importance of vaccinations.
Unit 18: Patient and Employee Safety	340 minutes	(1) Unit 2: Safety in Health Care
	8 periods	a. Demonstrate personal and environmental safety practices.
The chapter "Patient and Employee Safety"		DOK2
prepares students to maintain a safe		i. Apply principles of body mechanics.
environment for themselves, their		ii. Based on regulations set by the Occupational Safety
coworkers, and the patients in their care. The		and Health Association (OSHA and the Center for
first section introduces general safety principles, workplace responsibilities, and		Disease Control and Prevention (CDC), apply safety
OSHA regulations that govern health and		techniques (personal and patient) in the health care
safety practices in clinical settings. Students		setting to prevent accidents and injuries.
learn about injury and illness prevention		
programs, hazard communication, and the		b. Identify common safety hazards. DOK2
shared roles of employers and employees in		

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
reducing risks. The chapter then covers		<ol> <li>Comply with safety signs, symbols, and labels in</li> </ol>
specific strategies for ensuring patient safety,		accordance with OSHA and the CDC.
such as the proper use of mobility aids, side		c. Utilize emergency procedures and protocols. DOK3
rails, and postural supports. In the disaster		<ol> <li>Practice fire safety and discuss fire evacuation plans</li> </ol>
preparedness section, students explore emergency response procedures for events		in a health care setting. Include the following:
like fires, natural disasters, and bioterrorism.		1. PASS – Pull, Aim, Squeeze, Sweep
The chapter also teaches the principles of		2. RACE – Rescue, Activate, Contain,
body mechanics to prevent workplace		Extinguish/Evacuate
injuries, as well as essential first aid		3. Apply principles of basic emergency response
techniques for treating wounds, shock, and		in natural disasters and other emergencies to
airway emergencies. The final section focuses		include:
on CPR, equipping students with life-saving		4. Safe location
skills and an understanding of automated		
external defibrillator (AED) use. This chapter		5. Contact emergency personnel
provides the practical knowledge and skills		6. Follow facility protocols
needed to protect health care professionals		
and the individuals they serve.		
Unit 19: Measuring Vital Signs and Other	640 minutes	
Clinical Skills	14 periods	
	·	
The chapter "Measuring Vital Signs and Other		
Clinical Skills" equips students with essential		
tools to assess and support patient health in		
a clinical setting. In the first section, students		
learn how to measure temperature, pulse,		
and respiration—core indicators of a		
patient's well-being—and explore the factors		

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
that influence these vital signs. The second section focuses on blood pressure, completing the set of four key vital signs, and teaches students how to accurately measure and interpret systolic and diastolic readings. The final section introduces a range of basic nursing skills and assistive techniques used to ensure patient hygiene, comfort, nutrition, mobility, and safety. Students also learn how to prevent pressure sores, assist with prosthetic devices, collect specimens, and monitor for signs of dehydration or incontinence. Together, these sections provide a foundation for high-quality, compassionate care and prepare students to perform key clinical tasks as part of a health care team.		Recommended Prerequisites: Click or tap here to enter text.
Unit 20: Medical Assisting and Laboratory Skills  The chapter "Medical Assisting and Laboratory Skills" introduces students to the core responsibilities and competencies required of medical assistants and laboratory technicians. The first section focuses on medical assisting duties, covering both administrative tasks—such as patient registration and appointment scheduling—	350 minutes 8 periods	<ul> <li>(1) Unit 2: Safety in Health Care <ul> <li>a. Identify common safety hazards. DOK2</li> <li>i. Recognize Safety Data Sheets (SDS) and discuss safety implications of handling hazardous materials (checking labels and checking solutions).</li> </ul> </li> <li>(2) Unit 3: Career Preparation <ul> <li>a. Explore the various career options in the health care field. DOK1</li> <li>i. Pharmacology</li> <li>ii. Laboratory services</li> </ul> </li> </ul>

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0 Course Requirements:. Grades 11-12.
and clinical procedures like measuring vital signs, preparing patients for exams, and recording key health data. The second section emphasizes pharmacology and medication administration, teaching students how to calculate dosages, interpret prescription abbreviations, handle controlled substances, and follow safety protocols for medication preparation and delivery. In the final section, students learn fundamental laboratory skills, including specimen collection, safety procedures, autoclave operation, and basic diagnostic tests like CBCs, hemoglobin, and hematocrit. This chapter equips future health care workers		Prerequisites: None.  Recommended Prerequisites: Click or tap here to enter text.  (3) Unit 5: Infection Awareness and Prevention  i. Demonstrate the basic rules of standard precaution.  b. Utilize the principles of sterile technique. DOK3  i. Demonstrate skills related to sterile technique.  (4) Unit 6: Legal and Ethical Practices in Health Care  a. Utilize procedures for reporting activities and behaviors that affect the health, safety, and the welfare of others. DOK2  i. Complete an incident report.
with the versatile skill set needed to support clinical operations and ensure quality patient care in both medical and laboratory settings.		
Unit 21: Therapeutic Techniques and Sports Medicine  The chapter "Therapeutic Techniques and Sports Medicine" introduces students to the principles and practices of physical therapy and rehabilitation. It explores how therapeutic methods—such as exercise, massage, hydrotherapy, light and heat treatments—are used to restore movement,	170 minutes 4 periods	<ul> <li>(1) Unit 3: Career Preparation         <ul> <li>a. Explore the various career options in the health care field.</li> <li>i. Sports medicine</li> <li>ii. Rehabilitative services</li> </ul> </li> </ul>

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Course Name: Health Science Core 1 (995102)		Course Credit: 1.0 Course Requirements:. Grades 11-12.
		Prerequisites: None.  Recommended Prerequisites: Click or tap here to enter text.
build strength, and improve quality of life for individuals recovering from injury, surgery, or living with physical disabilities. Students learn the roles and responsibilities of physical therapy and sports medicine aides, as well as how to apply treatments like diathermy, cryotherapy, thermotherapy, ultrasound, and ultraviolet light. The chapter also covers range of motion exercises, guarding techniques, and the safe use of ambulation and transport devices. With this knowledge, students gain a deeper understanding of how rehabilitation supports healing and helps patients regain independence in daily activities.		
Unit 22: Responsibilities of a Dental Assistant	120 minutes 3 periods	
The chapter "Responsibilities of a Dental Assistant" introduces students to the multifaceted role of dental assistants in supporting dentists and ensuring efficient, high-quality oral care. Students learn about the wide range of responsibilities dental assistants manage, from preparing treatment rooms and sterilizing instruments to assisting with procedures and educating patients on proper oral hygiene. The chapter covers the		

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Course Name: Health Science Core 1 (995102)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
anatomy and identification of teeth, including distinctions between anterior and posterior teeth, as well as deciduous and permanent teeth. Students also become familiar with dental equipment, instrument names, and techniques for brushing and flossing, including the use of disclosing tablets and the Bass method. This chapter prepares students to perform essential clinical, laboratory, and patient-focused tasks within a dental office.	
Appendix A CDC Recommendations for Standard Precautions	
Appendix B Clinical Internship	(1) Unit 3: Career Preparation  a. Utilize the approved method of clinical hour documentation (e.g., AET or other state approved method of documentation). DOK2

Course Name: Health Science Core 2 (995103)		Course Credit: 1.0
Course Name: Health Science Core 2 (555105)		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Course Description: This toythook provides a fe	aundational understans	ding of human anatomy, physiology, and the interconnected systems that
		oody—cells, tissues, and organs—before exploring the major body systems,
		digestive, urinary, endocrine, immune, and reproductive systems. Each
		ntaining homeostasis. The text also introduces essential scientific principles,
	•	ters highlight the importance of healthy living, the growing role of forensic
	rs in nealth care. Togeth	ner, these topics provide a well-rounded introduction for students entering
the medical or health sciences field.		
<b>NOTE:</b> This is a suggested scope and sequence	for the course content.	
Total Number of Periods	X periods	*Schedule calculations based on 175/180 calendar days. Scope and
Total Number of Minutes	7,875 minutes	sequence allows additional time for guest speakers, student presentations,
Total Number of Hours	131.25 hours*	field trips, remediation, extended learning activities, etc.
	# of Class Periods*	
	(assumes 45-minute	
Unit Number, Title, and Brief Description	periods)	Standards
	Total minutes per	
	unit	
Unit 1: Anatomy, Physiology, and Disease	3 periods	(1) Identify the general signs, symptoms, treatment, and prevention
	120 minutes	methods associated with respiratory diseases and disorders.
This chapter introduces the essential building		a. Covid 19
blocks of healthcare knowledge, beginning		G. 661.4 <u>2</u> 5
with the study of the body's structure		
(anatomy) and function (physiology), and		
how diseases (pathology) can disrupt both. It		
highlights the importance of medical		
terminology as the universal language used		
to describe conditions, procedures, and body		

Course Name: Health Science Core 2 (00E102)	2.30000 0011 20101011)	Course Credit: 1.0
Course Name: Health Science Core 2 (995103)		
		Course Requirements:. Grades 11-12.  Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
systems. You'll also explore how the body		Recommended Frerequisites. energy tap here to enter text.
maintains balance through homeostasis, how		
metabolism fuels life processes, and how		
signs and symptoms help identify illness.		
Finally, the chapter touches on how diseases		
are diagnosed and how the body defends		
itself against infection, laying a strong		
foundation for deeper studies in health and		
medicine.		
Unit 2: The Human Body	2 periods	
Onit 2. The Human Body	105 minutes	
This chapter focuses on how healthcare	105 111114165	
professionals describe the human body with		
precision and clarity. It begins with the		
anatomical position—a universal starting		
point used to ensure consistency when		
referencing the body. You'll explore different		
body positions used in clinical settings, along		
with the planes and directional terms that		
help divide and navigate the body. The		
chapter also introduces the body's major		
cavities and specific regions, which are		
essential for locating organs and		
understanding medical procedures. Finally,		
you'll learn how modern imaging techniques		
like x-rays and MRIs allow us to view internal		
structures in detail, supporting accurate		
diagnosis and treatment.		

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Course Name: Health Science Core 2 (995103)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Unit 3: Biochemistry	2 periods	
Offic 3. Diochemistry	•	
	80 minutes	
This chapter explores the chemical		
foundations of life, beginning with atoms and		
elements—the basic building blocks of all		
matter. You'll learn how atoms combine to		
form molecules, including essential biological		
compounds like proteins, carbohydrates,		
lipids, and nucleic acids. The chapter also		
covers ions and electrolytes, the role of pH in		
maintaining balance in the body, and the		
importance of water as the universal solvent.		
Key concepts such as chemical bonding,		
cellular energy production through ATP, and		
the role of enzymes in metabolism are		
introduced, laying the groundwork for		
understanding how chemistry drives every		
function in the human body.		
, ,		
Unit 4: The Cells	3 periods	(1) Differentiate among internal, external, and cellular respiration.
ome in the delia	155 minutes	(2) Sincicidate among internal, external, and cental respiration.
This chapter evalures the structure and	באן ווווותובא	
This chapter explores the structure and		
function of cells—the fundamental units of		
all living organisms. You'll learn about the		

Course Name: Health Science Core 2 (995103)	·	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
organelles that carry out essential cellular processes, how substances move across cell membranes, and why proper transport is vital for health. The chapter also explains how cells generate energy through ATP, how they grow and divide through mitosis and meiosis, and how errors in these processes can lead to diseases like cancer. Finally, it introduces different types of microorganisms—including bacteria, viruses, fungi, and protozoa—highlighting their roles in both health and disease.		
Unit 5: Tissues and Systems  This chapter builds on the idea that while cells are the body's basic building blocks, they group together to form tissues, each with a specific role. You'll explore the four main types of tissues—epithelial, connective, muscle, and nervous—and learn how they combine to create organs. These organs, in turn, form systems that work together to keep the body functioning. The chapter introduces the body's 11 major systems and emphasizes how closely connected they are, especially when disease strikes. It also touches on how conditions like septicemia can affect multiple systems, highlighting the complexity of diagnosing and treating illness.	4 periods 160 minutes	<ol> <li>(1) Identify the types of joints and their related movements.         <ul> <li>a. Diarthrosis or synovial</li> </ul> </li> <li>(2) Compare the structures and functions of the muscular system with its relationship to movement.</li> <li>(3) Define the characteristics of skeletal muscle.</li> <li>(4) Research the impact of emerging technology on the muscular system.</li> <li>(5) Identify and discuss the structures and functions of the cardiovascular system and their role in maintaining homeostasis.</li> <li>(6) Describe the structures and functions of the respiratory system.</li> <li>(7) Describe the structures and functions of the digestive system.</li> <li>(8) Discuss the structures and functions of the male and female reproductive systems.</li> <li>(9) Discuss diseases and disorders of the reproductive system and related signs, symptoms, treatment, and prevention methods.</li> </ol>

Course Name: Health Science Core 2 (995103)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		a. Identify the general signs, symptoms, treatment, and
		prevention methods associated with sexually transmitted
		infections (STIs).
		i. Pubic lice
Unit 6: The Skeletal System	4 periods	(1) Compare the structures and functions of the skeletal system with
	170 minutes	its relationship to movement.
This chapter explores the skeletal system and		a. Identify the axial and appendicular bones.
its vital roles in support, protection, blood		b. Identify the parts of a bone.
cell production, and mineral storage. You'll learn about the different types of bones and		i. Diaphysis
their internal structures, including the		ii. Endosteum
distinction between compact and spongy		iii. Epiphysis
bone. The chapter also introduces the bone-		iv. Medullary canal
forming and bone-recycling cells involved in		v. Periosteum
growth and repair. You'll gain an		vi. Red marrow
understanding of joints, ligaments, and		vii. Yellow marrow
cartilage, and how they enable movement while withstanding stress. In addition, the		c. Explain the functions of the skeletal system.
chapter explains how the skeleton is divided		i. Framework
into the axial and appendicular regions and		ii. Protection
discusses common skeletal conditions such as		iii. Levers
arthritis, osteoporosis, and tendonitis. Aging		iv. Production of blood cells
and injury are also addressed, with practical		v. Storage
guidance on when to seek medical attention		d. Identify the types of joints and their related movements.
for bone and joint issues.		i. Diarthrosis or synovial
		(2) Discuss diseases and disorders of the skeletal system and related
		signs, symptoms, treatment, and prevention methods.

Course Name: Health Science Core 2 (995103)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	a. Identify the general signs, symptoms, treatment, and
	prevention methods associated with skeletal diseases,
	disorders, and injuries.
	i. Bursitis
	ii. Osteomyelitis
	iii. Osteoporosis
	iv. Osteoarthritis
	v. Rheumatoid arthritis
	vi. Sprain
	vii. Ruptured disk
	viii. Dislocation
	ix. Spinal curvatures: scoliosis, lordosis, and kyphosis
	x. Fractures: stress, comminuted, compound or open,
	simple or closed, depressed, green stick, impacted,
	spiral
	(3) Research the impact of emerging technology on the skeletal
	system.
	(4) Demonstrate active/passive range of motion, including adduction,
	abduction, flexion, extension, rotation, and circumduction.
	(5) Discuss diseases and disorders of the endocrine system and related
	causes, signs, symptoms, treatment, and prevention methods.
	a. Identify the general causes, signs, symptoms, treatment,
	and prevention methods associated with diseases and
	disorders of the endocrine system.
	i. Dwarfism

Course Name: Health Science Core 2 (995103)		Course Credit: 1.0
,		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		ii. Giantism
Unit 7: The Muscular System	3 periods	(1) Compare the structures and functions of the muscular system with
	135 minutes	its relationship to movement.
This chapter introduces the body's three		a. Identify the three types of muscle.
types of muscle—skeletal, smooth, and		i. Cardiac
cardiac—and explains their roles in		ii. Visceral/smooth
movement, internal function, and heart activity. You'll learn how muscles work by		iii. Skeletal
contracting and relaxing in coordination,		b. Define the characteristics of skeletal muscle
often with the help of tendons that connect		i. Contractibility
them to bones. At the microscopic level,		ii. Extensibility
muscle fibers contain sarcomeres, which rely		iii. Elasticity
on proteins like actin and myosin, along with		c. Identify major skeletal muscles.
ATP and calcium, to produce contraction. The chapter also highlights the essential		i. Biceps brachii
connection between the muscular and		ii. Deltoid
nervous systems, where nerve signals trigger		iii. Gastrocnemius
muscle movement through chemical messengers. Finally, it explores common		iv. Gluteus maximus
		v. Intercostals
muscular and neuromuscular disorders,		vi. Latissimus dorsi
emphasizing how these two systems are		vii. Pectoralis major
closely intertwined in both health and disease.		viii. Quadriceps femoris
discuse.		ix. Rectus abdominis
		x. Sternocleidomastoid
		xi. Tibialis anterior

Course Name: Health Science Core 2 (995103)	,	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		xii. Trapezius
		xiii. Triceps brachii
		d. Explain the function of the muscles.
		i. Movement
		ii. Produce heat and energy
		iii. Maintain Posture
		iv. Protect internal organs
		e. Demonstrate active/passive range of motion, including
		adduction, abduction, flexion, extension, rotation, and
		circumduction.
		(2) Discuss diseases, disorders, and injury of the muscular system and
		related signs, symptoms, and treatment methods.
		a. Identify the general signs, symptoms, treatment, and
		prevention methods associated with muscular diseases and
		disorders.
		i. Muscle spasms
		ii. Muscular dystrophy
		iii. Myasthenia gravis
		iv. Strain
		(3) Identify the general signs, symptoms, treatment, and prevention
		methods associated with cardiovascular diseases and disorders.
Unit 8: The Integumentary System	3 periods	(1) Identify the general signs, symptoms, treatment, and prevention
	150 minutes	methods associated with cardiovascular diseases and disorders.
This chapter highlights the skin as the body's		
largest and one of its most versatile organs.		
Far more than just a covering, the skin acts as		

Course Name: Health Science Core 2 (995103)	,	Course Credit: 1.0 Course Requirements:. Grades 11-12.
		Prerequisites: None.
a protective barrier against infection and injury, helps regulate body temperature, stores fat, and even plays a role in vitamin D production and waste elimination. You'll learn about the three main layers of the skin—the epidermis, dermis, and subcutaneous fascia—and how the skin constantly renews itself. The chapter also discusses the roles of skin glands, hair, and nails, and introduces how burns are assessed based on their depth and coverage. Together, these components form the integumentary system, a vital first line of defense and regulation.		Recommended Prerequisites: Click or tap here to enter text.
Unit 9: The Nervous System  This chapter explores the nervous system as the body's command center and communication network. It explains how the central nervous system (CNS)—made up of the brain and spinal cord—works alongside the peripheral nervous system (PNS) to gather sensory input, process information, and generate motor responses. You'll learn about the roles of neurons and neuroglia, how electrical signals travel, and how information is transmitted across synapses. The chapter also covers the brain's structure and specialized regions, the protective layers	6 periods 250 minutes	(1) Define the characteristics of skeletal muscle.  a. Excitability (2) Describe the structures and functions of the nervous system.  a. Identify the major structures of the nervous system and their respective functions.  i. Cerebellum  ii. Cerebrum  iii. Diencephalon: thalamus, hypothalamus  iv. Spinal cord  v. Meninges: dura mater, arachnoid membrane, pia mater vi. Ventricles  vii. Cerebral spinal fluid  b. Describe the divisions of the nervous system.

Course Name: Health Science Core 2 (995103)	Course Credit: 1.0
,	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
and fluids surrounding the CNS, and how the	i. Sympathetic
autonomic system manages involuntary	ii. Parasympathetic
functions like stress responses and daily body	c. Identify the structures of a neuron and the conduction process
regulation. Finally, it introduces common nervous system disorders, emphasizing the	of a nerve impulse.
importance of early diagnosis and the	i. Dendrites
challenges of treatment.	ii. Axon
	iii. Myelin sheath
	iv. Synapse
	v. Neurotransmitters
	(3) Discuss diseases and disorders of the nervous system and related
	causes, signs, symptoms, treatment, and prevention methods.
	a. Identify the general causes, signs, symptoms, treatment, and
	prevention methods associated with diseases and disorders of
	the nervous system.
	i. Alzheimer's disease
	ii. Amyotrophic lateral sclerosis
	iii. Cerebral palsy
	iv. Cerebrovascular accident
	v. Dementia
	vi. Epilepsy
	vii. Meningitis
	viii. Shingles
	ix. Traumatic Brain Injury/Concussion
	(4) Identify the basic structures and functions associated with the sensory
	organs.

Course Name: Health Science Core 2 (995103)	and Disease 6th Edition,	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Unit 10: The Endocrine System	3 periods	(1) Identify the structures and functions of the endocrine system.
	150 minutes	a. Differentiate between endocrine and exocrine.
This chapter introduces the endocrine system		b. Identify the structures comprising the endocrine system and
and its crucial role in regulating the body alongside the nervous system. Unlike the		their respective functions. (see table below)
rapid signals of nerves, hormones travel		i. Pituitary (Anterior Lobe) ACTH-adrenocorticotropic
more slowly through the bloodstream, but		Stimulates growth and secretion of the cortex of the
their effects are longer lasting. You'll learn		adrenal gland
how hormones influence target cells, how		ii. TSH-thyrotropin Stimulates growth and secretion of
feedback loops—especially negative		the thyroid gland
feedback—maintain balance, and how		iii. GH-somatotropin Growth hormone; stimulates
hormone release is triggered by various		normal body growth
internal signals. The chapter also explores major endocrine glands like the pituitary,		iv. Pituitary (Posterior Lobe) ADH-vasopressin
thyroid, pancreas, and adrenal glands,		Antidiuretic hormone; promotes reabsorption of
explaining their functions and the disorders		water in kidneys, constricts blood vessels
that result from hormonal imbalances.		v. Thyroid Thyroxine & tri-iodothyronine Increase
Conditions such as diabetes, hypothyroidism,		metabolic rate; stimulate physical and mental
hyperthyroidism, and Cushing's syndrome		growth; regulate metabolism of carbohydrates, fats,
illustrate the complexity and importance of hormone regulation in overall health.		and proteins
Hormone regulation in overall health.		vi. Adrenal (Cortex) Glucocorticoids:
		vii. Cortisol-hydrocortisone
		viii. Cortisone
		ix. Aide in metabolism of proteins, fats, and
		carbohydrates; increase amount of glucose in blood;
		provide resistance to stress; depress immune
		response (anti-inflammatory)

Course Name: Health Science Core 2 (995103)	·	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		x. Act as sex hormones
		xi. Stimulate female sexual characteristics
		xii. Stimulate male sexual characteristics
		xiii. Adrenal (Medulla) Epinephrine (adrenaline)
		Activates sympathetic nervous system; acts in times
		of stress to increase cardiac output and increase
		blood pressure
		xiv. Norepinephrine Activates body in stress situations
		xv. Pancreas
		xvi. Insulin
		(2) Discuss diseases and disorders of the endocrine system and related
		causes, signs, symptoms, treatment, and prevention methods.
		a. Identify the general causes, signs, symptoms, treatment,
		and prevention methods associated with diseases and
		disorders of the endocrine system.
		i. Acromegaly
		ii. Cushing's syndrome
		iii. Diabetes mellitus (Type 1 and 2)
		iv. Graves' disease
Unit 11: The Senses	3 periods	(3) Identify the basic structures and functions associated with the sensory
	135 minutes	organs.
This chapter explores the body's sensory		a. Identify sensory organs' structures and describe their
systems and how they help us experience		respective functions.
and respond to the world around us. It		i. Eye:
introduces the special senses—sight, hearing, balance, taste, and smell—and explains how		1. Aqueous humor
balance, taste, and smell—and explains now		

Course Name: Health Science Core 2 (995103)	Course Credit: 1.0
Course Hamer Health Science Core 2 (333103)	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
each one functions. You'll learn how the eye	2. Choroid coat
processes light to create vision, how the ear	3. Conjunctiva
detects sound and maintains balance, and	4. Cornea
how taste and smell are closely linked	5. Iris
through specialized receptors. The chapter also touches on general senses like touch,	6. Lacrimal glands
temperature, and pain, which allow us to	7. Lens
detect physical stimuli throughout the body.	8. Pupil
Together, these senses form a complex	9. Retina
network that keeps us informed and	10. Sclera
responsive to our environment.	11. Vitreous Humor
	ii. Ear:
	1. Auditory canal
	2. Cochlea
	3. Eustachian Tube
	4. Organ of Corti
	5. Ossicles
	6. Pinna/Auricle
	7. Semicircular canal
	8. Tympanic membrane
	(4) Discuss diseases and disorders of the sensory organs.
	a. Identify the general causes, signs, symptoms, treatment,
	and prevention methods associated with diseases and
	disorders of the sensory organs.
	i. Amblyopia
	ii. Astigmatism

Course Name: Health Science Core 2 (995103)		Course Credit: 1.0 Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		iii. Cataract
		iv. Conjunctivitis
		v. Glaucoma
		vi. Hearing loss (conductive, sensory)
		vii. Meniere's disease
		viii. Otitis externa
		ix. Otitis media
		x. Otosclerosis
		xi. Strabismus
Unit 12: The Cardiovascular System	5 periods	(1) Identify and discuss the structures and functions of the cardiovascular
	220 minutes	system and their role in maintaining homeostasis.
This chapter introduces the cardiovascular		a. Identify the components of blood and their respective
system as the body's essential transportation		functions.
network, delivering oxygen, nutrients, and		i. Plasma
hormones to tissues while removing waste products from cellular metabolism. You'll		ii. Erythrocytes
learn how the heart functions as two		iii. Hemoglobin
coordinated pumps—one sending blood to		iv. Leukocytes
the lungs for oxygenation, the other pushing		v. Thrombocytes
oxygen-rich blood throughout the body. The		b. Identify the type of blood vessels and the action of each.
chapter also explains the roles of arteries,		i. Aorta
veins, and capillaries, and how their structure		ii. Arteries
supports efficient circulation. In addition to		iii. Arterioles
transporting vital substances, the cardiovascular system helps regulate body		iv. Capillaries
temperature, fluid balance, and immune		v. Inferior vena cava
defense. The composition of blood—		
including red and white blood cells, plasma,		vi. Pulmonary artery

Course Name: Health Science Core 2 (995103)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
and platelets—is covered, along with the	vii. Pulmonary veins
mechanisms that regulate blood pressure	viii. Superior vena cava
through heart function, blood volume, and	ix. Veins
the kidneys.	x. Venules
	c. Identify the anatomy of the heart.
	i. Layers: endocardium, myocardium,
	pericardium/epicardium
	ii. Structures: septum, right/left atriums, right/left
	ventricles, tricuspid valve, pulmonary valve,
	bicuspid/mitral valve, aortic valve
	d. Describe the electrical conduction pathway.
	i. SA node
	ii. AV node
	iii. Bundle of HIS
	iv. Right and left bundle branches
	v. Purkinje Fibers
	e. Describe the pathway of pulmonary and systemic
	circulation.
	f. Define systole and diastole.
	g. Identify the general signs, symptoms, treatment, and
	prevention methods associated with cardiovascular diseases
	and disorders.
	i. Arteriosclerosis
	ii. Atherosclerosis
	iii. Congestive heart failure

Course Name: Health Science Core 2 (995103)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		iv. Hypertension
		v. Iron deficiency anemia
		vi. Myocardial infarction
		vii. Sickle cell anemia
		(2) Research the impact of emerging technology on the cardiovascular
		system.
Unit 13: The Respiratory System	4 periods	(1) Describe the structures and functions of the respiratory system.
	200 minutes	a. Define inspiration and expiration.
This chapter explores the respiratory system		b. Identify the structures of the respiratory system and their
and its critical role in gas exchange—bringing		respective functions.
oxygen into the body and removing carbon		i. Alveoli
dioxide. Air travels through a branching		ii. Bronchi
network of airways, from the trachea to bronchioles, and finally to alveoli where		iii. Bronchioles
oxygen enters the bloodstream and waste		iv. Epiglottis
gases exit. The upper airways filter, warm,		v. Larynx
and humidify incoming air while also		,
supporting smell and speech. Specialized		vi. Lungs
structures like the epiglottis, tonsils, and cilia		vii. Nasal cavity
help protect the lungs from harmful particles		viii. Nasal septum
and pathogens. The diaphragm and accessory		ix. Nose
muscles drive breathing, guided by signals		x. Pharynx
from the brain's respiratory control center.		xi. Pleura
Altogether, the system moves an impressive		xii. Sinuses
volume of air daily to support cellular		xiii. Trachea
function and overall health.		

Course Name: Health Science Core 2 (995103)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	c. Differentiate among internal, external, and cellular
	respiration.
	(2) Discuss diseases and disorders of the respiratory system and related
	signs, symptoms, and treatment methods.
	a. Identify the general signs, symptoms, treatment, and
	prevention methods associated with respiratory diseases
	and disorders.
	i. Asthma
	ii. Bronchitis
	iii. COPD
	iv. Emphysema
	v. Influenza
	vi. Lung cancer
	vii. Pneumonia
	viii. Sleep apnea
	ix. Tuberculosis
	(3) Discuss diseases and disorders of the lymphatic system and related
	causes, signs, symptoms, treatment, and prevention methods.
	a. Identify the general causes, signs, symptoms, treatment,
	and prevention methods associated with diseases and
	disorders of the lymphatic system.
	i. Splenomegaly
	(4) Identify the basic structures and functions associated with the sensory
	organs.

Course Name: Health Science Core 2 (995103)	nd Disease 6th Edition	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		a. Identify sensory organs' structures and describe their
		respective functions.
		i. Nose:
		1. Olfactory receptors
Unit 14: The Lymphatic and Immune	4 periods	(1) Explain the structures and functions of the lymphatic system.
Systems	160 minutes	a. Identify structures of the lymphatic system and their
		respective functions.
This chapter explores how the lymphatic		i. Tonsils
system supports the immune system by		ii. Spleen
transporting fluid, housing white blood cells,		iii. Lymph nodes
and filtering harmful substances from the body. You'll learn how lymph nodes, vessels,		iv. Thymus
and organs like the spleen and thymus work		(2) Discuss diseases and disorders of the lymphatic system and related
together to detect and destroy pathogens,		causes, signs, symptoms, treatment, and prevention methods.
while also returning fluid to the bloodstream.		a. Identify the general causes, signs, symptoms, treatment,
The immune system itself is divided into two		
parts: innate immunity, which offers fast,		and prevention methods associated with diseases and
general defense, and adaptive immunity,		disorders of the lymphatic system.
which targets specific threats and builds long-		i. Hodgkin's disease
term memory. You'll also discover how white		ii. Tonsillitis
blood cells coordinate immune responses,		(3) Discuss diseases and disorders of the reproductive system and related
how inflammation and fever act as defense		signs, symptoms, treatment, and prevention methods.
mechanisms, and how the body distinguishes		a. Identify the general signs, symptoms, treatment, and
between self and foreign antigens. The		prevention methods associated with sexually transmitted
chapter concludes with a look at immune system disorders, including autoimmune		infections (STIs).
diseases like rheumatoid arthritis and lupus,		i. Human Immunodeficiency Virus
and immune-deficiency conditions such as		

Litt 15: The Gastrointestinal System  This chapter examines the digestive system, a complex tube-like structure that processes food from intake to elimination. You'll learn how digestion involves both mechanical and chemical breakdown of food into nutrients the body can absorb and use. The small intestine plays a central role in nutrient absorption, while accessory organs like the liver, gallbladder, and pancreas support digestion by producing and releasing vital enzymes and substances. The chapter also highlights how the speed of digestion impacts nutrient absorption and waste formation. Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  Littly Aperiods  195 minutes  4 periods 195 minutes  195 minutes  195 minutes  195 minutes  195 minutes  2 a. Describe the structures and functions of the digestive process (pathway of food, digestion, nutrient absorption).  1 in Mouth: teeth, tongue, hard palate, soft palate 1 iii. Pharynx 1 iiii. Esophagus 1 iv. Cardiac/esophageal sphincter 2 v. Stomach (include rugae) 2 vi. Pyloric sphincter 2 vii. Small intestine (include villi)  1 Duodenum 2 leum 3 Jejunum 2 leum 3 Jejunum 3 Jejunum 3 Jejunum 3 Jejunum 3 Jejunum 4 A periods 4 periods 6 vii Describe the structures and functions of the digestive process (pathway of food, digestion, nutrient absorption, hid their respective functions regarding the digestive process (pathway of food, digestion, nutrient absorption).  i. Mouth: teeth, tongue, hard palate, soft palate ii. Pharynx iii. Esophagus iv. Cardiac/esophageal sphincter v. Stomach (include rugae) vi. Pyloric sphincter vii. Small intestine (include villi) 1 Duodenum 1 Leum 2 Ascending colon 3 Jejunum 2 Ascending colon 3 Transverse colon 4 Descending colon	Scope & Sequence – Pearson: Anatomy, Physiology, ar	iu Disease oth Euition,	Course Credit: 1.0
HIV/AIDS, showing the delicate balance required to keep the body protected.  Unit 15: The Gastrointestinal System  This chapter examines the digestive system, a complex tube-like structure that processes food from intake to elimination. You'll learn how digestion involves both mechanical and chemical breakdown of food into nutrients the body can absorb and use. The small intestine plays a central role in nutrient absorption, while accessory organs like the liver, gallbladder, and pancreas support digestion by producing and releasing vital enzymes and substances. The chapter also highlights how the speed of digestion impacts nutrient absorption and waste formation.  Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  Perequisites: None. Recommended Prerequisites: Click or tap here to enter text.  (1) Describe the structures and functions of the digestive system.  a. Describe the structures comprising the alimentary canal and their respective functions regarding the digestive process (pathway of food, digestion, nutrient absorption).  i. Mouth: teeth, tongue, hard palate, soft palate ii. Esophagus iv. Cardiac/esophageal sphincter v. Stomach (include rugae) vi. Pyloric sphincter vii. Small intestine (include villi)  1. Duodenum 2. Ileum 3. Jejunum viii. Large intestine 1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon	Course Name: Health Science Core 2 (995103)		
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the body can absorb and use. The small intestine plays a central role in nutrient absorption, while accessory organs like the liver, gallbladder, and pancreas support digestion by producing and releasing vital enzymes and substances. The chapter also highlights how the speed of digestion impacts nutrient absorption and waste formation.  Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  iii. Esophagus  iv. Cardiac/esophageal sphincter  v. Stomach (include rugae)  vi. Pyloric sphincter  vii. Small intestine (include villi)  1. Duodenum  2. Ileum  3. Jejunum  viii. Large intestine  1. Cecum  2. Ascending colon  3. Transverse colon  4. Descending colon			ii. Pharynx
absorption, while accessory organs like the liver, gallbladder, and pancreas support digestion by producing and releasing vital enzymes and substances. The chapter also highlights how the speed of digestion impacts nutrient absorption and waste formation.  Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  v. Stomach (include rugae) vi. Pyloric sphincter vii. Small intestine (include villi)  1. Duodenum 2. Ileum 3. Jejunum viii. Large intestine 1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon			iii. Esophagus
liver, gallbladder, and pancreas support digestion by producing and releasing vital enzymes and substances. The chapter also highlights how the speed of digestion impacts nutrient absorption and waste formation. Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon	intestine plays a central role in nutrient		iv. Cardiac/esophageal sphincter
digestion by producing and releasing vital enzymes and substances. The chapter also highlights how the speed of digestion impacts nutrient absorption and waste formation.  Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  Vii. Small intestine (include villi)  1. Duodenum  2. Ileum  3. Jejunum  viii. Large intestine  1. Cecum  2. Ascending colon  3. Transverse colon  4. Descending colon			v. Stomach (include rugae)
enzymes and substances. The chapter also highlights how the speed of digestion impacts nutrient absorption and waste formation. Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  1. Duodenum 2. Ileum 3. Jejunum viii. Large intestine 1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon			vi. Pyloric sphincter
highlights how the speed of digestion impacts nutrient absorption and waste formation.  Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  1. Duodenum 2. Ileum 3. Jejunum viii. Large intestine 1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon			vii. Small intestine (include villi)
nutrient absorption and waste formation.  Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  2. Ileum 3. Jejunum viii. Large intestine 1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon	·		1. Duodenum
Lastly, it touches on common causes of gastrointestinal disorders, including genetics, diet, substance use, and emotional health.  3. Jejunum viii. Large intestine 1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon			2. Ileum
diet, substance use, and emotional health.  1. Cecum 2. Ascending colon 3. Transverse colon 4. Descending colon	-		3. Jejunum
2. Ascending colon 3. Transverse colon 4. Descending colon	gastrointestinal disorders, including genetics,		viii. Large intestine
3. Transverse colon 4. Descending colon	diet, substance use, and emotional health.		1. Cecum
4. Descending colon			2. Ascending colon
			3. Transverse colon
			4. Descending colon
			5. Sigmoid colon
ix. Rectum			
x. Anus			x. Anus

Course Name: Health Science Core 2 (995103)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	b. Describe the accessory structures of the digestive system
	and their respective functions regarding the digestive
	process (pathway of food, digestion, nutrient absorption).
	i. Salivary glands
	ii. Pancreas
	iii. Liver
	iv. Appendix
	v. Gallbladder
	(2) Discuss diseases and disorders of the digestive system and related
	signs, symptoms, treatment, and prevention methods.
	a. Identify the general signs, symptoms, treatment, and
	prevention methods associated with diseases and disorders
	of the digestive system.
	i. Appendicitis
	ii. Cholecystitis
	iii. Cirrhosis
	iv. Diverticulitis
	v. Gastric ulcer
	vi. GERD
	vii. Hepatitis type B (HBV)
	viii. Pancreatitis
	ix. Ulcerative colitis
	(3) Identify the basic structures and functions associated with the sensory
	organs.

Course Name: Health Science Core 2 (995103)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		a. Identify sensory organs' structures and describe their
		respective functions.
		i. Tongue:
		1. Papillae
Unit 16: The Urinary System	3 periods	(1) Explain the structures and functions of the urinary system as they
	150 minutes	relate to the formation, composition, and elimination of urine.
This chapter focuses on the urinary system		a. Identify urinary system structures and their respective
and its essential role in maintaining the		functions.
body's fluid and electrolyte balance while		i. Bladder (include rugae)
removing nitrogenous waste. You'll learn how urine is produced by the kidneys—		ii. Bowman's capsule
complex organs made up of millions of		iii. Cortex
nephrons that filter blood, reabsorb needed		iv. Glomerulus
substances, and secrete waste. The process		v. Hilum
involves glomerular filtration, tubular		vi. Kidneys
reabsorption, and secretion, all regulated by		vii. Medulla
hormones and blood pressure mechanisms.		viii. Nephrons
Urine then travels through the ureters to the		
bladder for storage and is eventually expelled		·
through the urethra under both voluntary and reflex control. The chapter also examines		x. Ureters
the structure of the kidney, the importance		xi. Urethra
of maintaining healthy filtration, and how		xii. Urinary meatus
kidney disease can impact not just renal		(2) Discuss diseases and disorders of the urinary system and related
function, but overall cardiovascular health.		causes, signs, symptoms, treatment, and prevention methods.
Treatments like dialysis and transplantation		a. Identify the general causes, signs, symptoms, treatment,
are also discussed as responses to advanced		and prevention methods associated with diseases of the
kidney failure.		urinary system.

Course Name: Health Science Core 2 (995103)	and Discuse our Edition, (	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		i. Cystitis
		ii. Glomerulonephritis
		iii. Pyelonephritis
		iv. Renal calculus
		v. Renal failure
		b. Define disorders of the urinary system.
		i. Anuria
		ii. Dysuria
		iii. Hematuria
		iv. Incontinence
		v. Nocturia
		vi. Oliguria
		vii. Polyuria
		viii. Proteinuria
		ix. Pyuria
		x. Retention
Unit 17: The Reproductive System	4 periods	(1) Discuss the structures and functions of the male and female
	190 minutes	reproductive systems.
This chapter explores how the body		a. Identify the major structures of the male and female
reproduces and grows, beginning with		reproductive system and their respective functions.
asexual reproduction through mitosis, which		i. Male:
allows tissues to grow and repair. In contrast, sexual reproduction requires specialized cells		1. Ejaculatory ducts
called gametes—eggs and sperm—produced		2. Epididymis
through meiosis. The human life cycle begins		3. Penis
with fertilization, when these gametes		4. Prostate gland
combine to form a zygote that develops		Trostate glana

Course Name: Health Science Core 2 (995103)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
through multiple stages into a fully formed	5. Scrotum
human. The chapter examines the structure	6. Seminal vesicles
and function of both the female and male	7. Testes
reproductive systems, highlighting the hormonal control behind the female	8. Urethra
menstrual cycle and the production of sperm	9. Vas deferens
in males. Finally, it explains how hormones	ii. Female:
like estrogen, progesterone, and	1. Breasts
testosterone regulate reproductive processes	2. Fallopian tubes
and secondary sex characteristics.	3. Ovaries
	4. Perineum
	5. Uterus: endometrium
	6. Vagina
	7. Vulva: mons pubis, labia majora, labia minora
	(2) Discuss diseases and disorders of the reproductive system and related
	signs, symptoms, treatment, and prevention methods.
	a. Identify the general signs, symptoms, treatment, and
	prevention methods associated with diseases and disorders
	of the reproductive systems.
	i. Breast cancer
	ii. Cervical cancer
	iii. Endometriosis
	iv. Ovarian cancer
	v. Prostate cancer
	vi. Prostatic hypertrophy
	vii. Testicular cancer

Course Name: Health Science Core 2 (995103)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		viii. Uterine cancer
		b. Identify the general signs, symptoms, treatment, and
		prevention methods associated with sexually transmitted
		infections (STIs).
		i. Chlamydia
		ii. Gonorrhea
		iii. Herpes
		iv. Human Papillomavirus
		v. Trichomoniasis
Unit 18: Basic Diagnostic Tests  This chapter introduces the role of diagnostic testing in evaluating a patient's health and guiding medical decisions. These tests help identify conditions, monitor disease progression, assess treatment effectiveness, and predict outcomes. While no single test should be used in isolation, a variety of tools—from blood and urine analysis to imaging and monitoring devices—offer critical insights. You'll learn about common tests like complete blood counts, cultures, and urinalysis, as well as specialized procedures such as electrocardiograms, pulmonary function tests, and sleep studies. Together, these diagnostics form the foundation of accurate and informed patient care.	3 periods 125 minutes	<ol> <li>(1) Research the impact of emerging technology on the digestive system.</li> <li>(2) Research the impact of emerging technology on the urinary system.</li> <li>(3) Research the impact of emerging technology on the lymphatic system.</li> <li>(4) Research the impact of emerging technology on the nervous system.</li> <li>(5) Research the impact of emerging technology on the endocrine system.</li> <li>(6) Research the impact of emerging technology on the sensory organs.</li> <li>(7) Research the impact of emerging technology on the reproductive system.</li> </ol>

Course Name: Health Science Core 2 (995103)	,	Course Credit: 1.0 Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Unit 19: Anatomy and Physiology and the	2 periods	
Scientific Method	80 minutes	
This chapter introduces the scientific method as a structured process for investigating natural and physical phenomena through observation, experimentation, and analysis. You'll learn how researchers form testable, refutable hypotheses and gather data to support or reject them. Scientific theories, while strongly supported by evidence, remain open to revision as new discoveries emerge. The chapter emphasizes the importance of using accurate and precise quantitative data, appropriate controls, and effective methods for presenting findings. It also acknowledges that while science plays a critical role in understanding the world, it is just one way of knowing and has its own limitations.		
Unit 20: The Journey's End  This chapter highlights the role of forensic science in solving both modern and historical crimes through the use of disciplines like anatomy, physiology, and DNA analysis. It then shifts focus to the aging population, noting that the ability to maintain homeostasis declines with age and that different body systems age at different rates.	2.5 periods 115 minutes	(1) Discuss diseases and disorders of the reproductive system and related signs, symptoms, treatment, and prevention methods.  a. Identify the general signs, symptoms, treatment, and prevention methods associated with sexually transmitted infections (STIs).  i. Syphilis

Course Name: Health Science Core 2 (995103)	,	Course Credit: 1.0
,		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Special attention is given to how older adults		
respond to medications, especially in cases of		
polypharmacy. The chapter concludes by		
emphasizing the importance of personal		
health choices—such as proper nutrition,		
regular exercise, stress management, and		
avoiding harmful behaviors—as key		
strategies for aging well and reducing the risk		
of preventable diseases like cancer.		
Unit 21: Health Care: Careers and Career	2.5 periods	(1) Identify the basic structures and functions associated with the sensory
Planning	115 minutes	organs.
This final chapter guides students in exploring		
the wide range of career opportunities in the		
health care field by encouraging self-		
reflection on personal interests, values, and		
abilities. Understanding these factors is		
essential for choosing a fulfilling career path.		
The chapter introduces key resources for		
researching occupations, outlines the		
education and skills needed for various roles,		
and emphasizes the importance of		
professional characteristics and ethical		
responsibilities. Students will also gain		
practical knowledge about job seeking,		
creating a career plan, and exploring		
volunteer experiences to help prepare for a		
future in health care.		

## Scope & Sequence - Pearson: Nursing Careers, ©2026

Course Name: CTE: Healthcare and Clinical Services (995105)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.

Course Description: Nursing Careers provides a comprehensive introduction to the nursing profession, covering its historical foundations, career pathways, and the essential skills required for success. The textbook guides students through the structure of the health care system, the role of nursing assistants, and the development of key employability, communication, and patient care skills. It emphasizes safety, legal and ethical responsibilities, and the importance of respecting individual needs across diverse patient populations. Students learn about vital signs, hygiene, nutrition, mobility, and procedures related to acute, subacute, and long-term care. The textbook also addresses specialized topics such as specimen collection, rehabilitation, and end-of-life care, offering practical knowledge for those pursuing a meaningful and compassionate career in nursing.

NOTE: This is a suggested scope and sequence for the course content.		
Total Number of Periods	X periods	*Schedule calculations based on 175/180 calendar days. Scope and
Total Number of Minutes	7,875 minutes	sequence allows additional time for guest speakers, student presentations,
Total Number of Hours	131.25 hours*	field trips, remediation, extended learning activities, etc.
	# of Class Periods*	
	(assumes 45-minute	
Unit Number, Title, and Brief Description	periods)	Standards
	Total minutes per	
	unit	
Chapter 1: The History of Nursing	55 minutes	
	1 period	
This chapter provides an overview of the		
historical development of nursing,		
highlighting key events, individuals, and		
societal influences that shaped the		
profession. It traces how advancements in		
medical science and technology have		
transformed health care services and the role		
of nurses over time. The chapter also		

Course Name: CTE: Healthcare and Clinical Serv	ices (995105)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
introduces the evolution of nursing education, including various training programs available to aspiring nurses. Finally, it outlines the four major areas of nursing science, emphasizing the academic and practical foundations of modern nursing practice.		
Chapter 2: Finding the Right Occupation for You  This chapter introduces the Health Science career cluster and its five pathways, emphasizing that nursing falls under the Therapeutic Services pathway. It highlights the essential role of nursing assistants in helping patients with daily activities and notes the wide range of environments where they may work, from hospitals to home care. The chapter outlines the key personal traits that contribute to success in this field and explains how OBRA regulations help ensure quality training and care. It also reviews the various training options, certification routes, and potential career paths available to nursing assistants, while noting that further education and licensing can lead to advanced	70 minutes 2 periods	<ul> <li>(1) UNIT 1: Course Orientation and Safety Review <ul> <li>a. Review and complete proper procedures for clinical site visits as needed.</li> <li>i. Apply employability/career-readiness skills in healthcare.</li> </ul> </li> <li>(2) UNIT 2: Employment Preparation and Embedded Work-Based Learning <ul> <li>a. Research current available jobs across the healthcare field to develop a chart that compares specific elements.</li> <li>i. Compare specific employment elements.</li> <li>b. Identify the personal traits and attitudes desirable in a member of the career-ready healthcare team.</li> <li>i. Define and demonstrate desirable traits and attitudes of team members.</li> <li>ii. Summarize professional standards for hygiene, dress, language, confidentiality, verbal</li> </ul> </li> </ul>

Course Name: CTE: Healthcare and Clinical Ser		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		(3) UNIT 5: Emergency Services and Basic Life Support
		<ul> <li>a. Explore careers in the field of emergency services.</li> </ul>
		<ol> <li>Research and describe the respective educational</li> </ol>
		requirements, appropriate schools,
		licensure/certification/registration, work
		environment, job responsibilities, and salary
		information for various careers.
		(4) UNIT 8: Medical Services
		a. Explore the field of medical services.
		i. Research and describe the respective educational
		requirements, appropriate schools,
		licensure/certification/registration, work
		environment, job responsibilities, and salary
		information for various careers.
		(5) UNIT 9: Nursing Services
		a. Explore the field of nursing services.
		i. Research and describe the respective educational
		requirements, appropriate schools,
		licensure/certification/registration, work
		environment, job responsibilities, and salary
		information for various careers.
Chapter 3: Nursing and the Health Care	75 minutes	(1) UNIT 2: Employment Preparation and Embedded Work-Based
System	2 periods	Learning
		a. Research current available jobs across the healthcare field
This chapter explores how the U.S. health		to develop a chart that compares specific elements.
care system is structured to address a range		

Course Name: CTE: Healthcare and Clinical Serv	vices (995105)  Course Credit: 1.0  Course Requirements:. Grades 11-12.  Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
of patient needs, including acute, subacute, long-term, and home care. It explains how health care organizations are designed to deliver these services effectively. The chapter also emphasizes the vital role of the nursing assistant within the broader nursing team. It highlights how nursing care plans are developed by registered nurses in collaboration with interdisciplinary teams, ensuring that all team members work together to support the patient's care goals.	(2) UNIT 5: Emergency Services and Basic Life Support  a. Explore careers in the field of emergency services.  (3) UNIT 9: Nursing Services  a. Explore the field of nursing services.  i. Research and describe the respective educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information for various careers.  (4) UNIT 12: Healthcare Administration  a. Identify factors that affect healthcare systems, the services that are performed, and the quality of care.  i. Research and discuss the impact of emerging issues on healthcare delivery systems.  ii. Review common healthcare payment methods.  (5) UNIT 13: Mental Health Services  a. Explore the field of mental health services.  i. Research and describe the respective educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information of various careers.  (6) UNIT 18: Clinical Capstone Project

Course Name: CTE: Healthcare and Clinical Serv		Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.  a. Students will research and learn about common diseases and disorders that affect human beings, including symptoms, causes, and treatments.  i. Develop a fictional patient for the duration of the clinical capstone project, incorporating specific details and factors to characterize this individual.
Chapter 4: Developing Employability Skills  This chapter focuses on the essential skills that employers seek when hiring and promoting employees across various career paths. It highlights the importance of decision-making, problem-solving, goalsetting, and time management as key components of professional success. The chapter also emphasizes effective communication as a vital skill in the workplace. By understanding and developing these abilities, students can prepare themselves for long-term success in nursing or any other chosen career.	65 minutes 1 period	<ul> <li>(1) UNIT 1: Course Orientation and Safety Review <ul> <li>a. Review and complete proper procedures for clinical site visits as needed.</li> <li>i. Apply employability/career-readiness skills in healthcare.</li> </ul> </li> <li>(2) UNIT 12: Healthcare Administration <ul> <li>a. Explore the field of health information management.</li> <li>i. Research and describe the respective educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information of various careers.</li> </ul> </li> </ul>
Chapter 5: Preparing for a Career  This chapter outlines the steps and resources available to help students prepare for a career in the Health Sciences. It guides readers through identifying their interests,	75 minutes 2 periods	<ul> <li>(3) UNIT 1: Course Orientation and Safety Review <ul> <li>a. Review the health science student organization (HOSA).</li> </ul> </li> <li>(4) UNIT 2: Employment Preparation and Embedded Work-Based Learning <ul> <li>a. Through a real job search, analyze differences in online application requirements of various job postings.</li> </ul> </li> </ul>

Course Name: CTE: Healthcare and Clinical Ser	vices (995105)	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
values, and abilities, and explains how to		b. Research and select a real job advertisement.
create a career plan and develop key job		<ol> <li>Develop a cover letter to fit the job advertisement</li> </ol>
search documents. The chapter also		using terminology that reflects the culture and
introduces professional resources such as		values specific to that company or clinic.
HOSA and networking opportunities that can		ii. Create a resumé with fabricated elements to fit the
support career growth. Additionally, it covers		real job advertisement.
job search strategies, interview preparation,		c. Demonstrate real-world interview skills led by the instructor
and the importance of lifelong learning for		and/or external supervisors.
continued professional success.		i. Include certain skills in the real-world
		demonstration.  d. Write customized thank-you letters to each member of the
		interview committee and send them using available
		methods of delivery.
		e. Develop components of a work-based learning personal
		portfolio.
		<ul> <li>i. Create a student personal profile on the state- approved digital platform.</li> </ul>
		<ol> <li>Develop and track the student project learning</li> </ol>
		experiences.
		(5) UNIT 5: Emergency Services and Basic Life Support
		<ul> <li>a. Perform skills obtained in training or certification for basic</li> </ul>
		life support according to the latest information from the
		American Heart Association or American Red Cross.
		(6) UNIT 8: Medical Services
		a. Explore the field of medical services.
		i. Research and describe the respective educational
		requirements, appropriate schools,
		licensure/certification/registration, work

Course Name: CTE: Healthcare and Clinical Serv	ices (995105)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text. environment, job responsibilities, and salary
Chapter 6: Skills for Professional Success  This chapter explores the qualities and characteristics that define professionalism and contribute to workplace success. It emphasizes the importance of teamwork and leadership, along with strategies for recognizing and managing stress in professional settings. The chapter also highlights the growing role of technology in health care and how it supports effective communication within health care environments. Together, these skills prepare students to thrive in modern, fast-paced health care careers.	80 minutes 2 periods	<ul> <li>(1) UNIT 1: Course Orientation and Safety Review <ul> <li>a. Discuss leadership and personal development in accordance with HOSA guidelines.</li> <li>b. Review and complete proper procedures for clinical site visits as needed. <ul> <li>i. Research and identify local facility requirements and complete various tasks.</li> </ul> </li> <li>c. Review and demonstrate the proper safety procedures in the healthcare setting.</li> </ul></li></ul>
Chapter 7: Communication Skills for Nursing  This chapter emphasizes the importance of strong communication and interpersonal skills in nursing. It introduces therapeutic communication as a framework for interacting effectively with patients, families, and coworkers. The chapter explains how body language should align with verbal messages and how interpreting others'	75 minutes 2 periods	

Course Name: CTE: Healthcare and Clinical Ser	vices (995105)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
nonverbal cues is essential for clarity and empathy. It also explores common barriers to communication and highlights the difference between objective and subjective reporting, noting that accurate documentation must follow both general principles and organizational guidelines.		
Chapter 8: Relating to Your Patients  This chapter focuses on understanding and respecting the individuality of patients by addressing their basic human needs and agespecific characteristics. It explains how care should be tailored to each patient's stage of life, noting that safety and comfort measures vary across age groups. The chapter also stresses the importance of extending this personalized approach to the patient's family. Additionally, it highlights the need to recognize and adapt to cultural and religious differences to ensure that care is both effective and respectful.	60 minutes 1 period	(1) UNIT 1: Course Orientation and Safety Review  a. Review and complete proper procedures for clinical site visits as needed.  i. Research and identify local facility requirements and complete various tasks.  (2) UNIT 3: Human Growth and Development  a. Discuss the stages of growth and development across the lifespan.  i. Describe the four main types of growth and development (physical, mental, emotional, and social) that occur within the stages of life.  b. Describe Maslow's hierarchy of human needs.  i. Identify and define the levels of need in the proper order.  ii. Discuss the importance of each level.  c. Discuss methods of satisfying human needs.  i. Differentiate between direct and indirect needs.

Course Name: CTE: Healthcare and Clinical Services (995105)		Course Credit: 1.0 Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
Chapter 9: Legal and Ethical Responsibilities	65 minutes	(1) UNIT 1: Course Orientation and Safety Review
of the Nursing Assistant	1 period	a. Review and complete proper procedures for clinical site
This chapter emphasizes the importance of		visits as needed.
This chapter emphasizes the importance of understanding and following the laws and		i. Research and identify local facility requirements and
ethical standards that govern health care.		complete various tasks.
Nursing assistants must act within legal and		b. Review and demonstrate the proper safety procedures in
ethical boundaries to protect the rights and		the healthcare setting.
well-being of both patients and coworkers.		(2) UNIT 8: Medical Services
The chapter explains the need to be familiar		a. Describe basic medical assistant concepts and procedures.
with facility policies and outlines the		i. Identify the concepts related to physical exams.
resources available for reporting unethical or illegal behavior. It also introduces legal tools		ii. Apply proper procedure.
like living wills and health care powers of		(3) UNIT 12: Healthcare Administration
attorney that allow patients to make		a. Explore the field of health information management.
decisions about their end-of-life care.		i. Research and describe the respective educational
		requirements, appropriate schools,
		licensure/certification/registration, work
		environment, job responsibilities, and salary
		information of various careers.
		b. Identify factors that affect healthcare systems, the services
		that are performed, and the quality of care.
		i. Describe the responsibilities of consumers within the
		healthcare system.
		(4) UNIT 18: Clinical Capstone Project

Course Name: CTE: Healthcare and Clinical Ser	rvices (995105)	Course Credit: 1.0
(222 22)		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		a. Students will research and learn about common diseases
		and disorders that affect human beings, including
		symptoms, causes, and treatments.
		<ul> <li>i. Explore the five patient-centered steps in the patient care process and apply the process to the fictional</li> </ul>
		patient by providing patient-centered care.
		ii. Apply the patient care process to the fictional
		patient by providing patient-centered care as applicable.
		iii. Report the outcome of the patient's problem in a mock scenario, illustrating the steps taken by the medical caretaker within a teacher-approved method.
		iv. Record the patient care process as needed in the
		state-approved digital portfolio.
Chapter 10: Infection Control	130 minutes	(1) UNIT 8: Medical Services
	3 periods	a. Describe basic medical assistant concepts and procedures.
This chapter explains how microorganisms cause disease and the vital role nursing assistants play in preventing the spread of infection. It stresses the importance of following facility policies and using protective measures like gloves, personal protective equipment (PPE), and proper hand hygiene. Alcohol-based hand sanitizers are highlighted as the preferred method in most cases, though soap and water are required when		

Course Name: CTE: Healthcare and Clinical Ser	vices (995105)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
visible contaminants are present. The chapter also covers isolation procedures for contagious diseases and the essential skills nursing assistants must develop for using PPE correctly and maintaining a safe care environment.		
Chapter 11: Environmental Safety, Accident Prevention, and Disaster Plans  This chapter highlights the critical importance of safety in all aspects of patient care.  Nursing assistants are responsible for protecting patients by responding quickly to call lights, using infection control practices, and maintaining proper body mechanics. The chapter outlines ways to prevent common hazards such as falls, burns, choking, and suffocation, and it stresses the need to understand restraint procedures. It also emphasizes the importance of fire safety, disaster preparedness, and participating in drills to ensure readiness in emergency situations.	85 minutes 2 periods	<ul> <li>(1) UNIT 1: Course Orientation and Safety Review <ul> <li>a. Review and demonstrate the proper safety procedures in the healthcare setting.</li> <li>i. Describe personal and environmental safety practices.</li> <li>ii. Identify common safety hazards.</li> </ul> </li> <li>(2) UNIT 6: First Aid <ul> <li>a. Describe the concepts for treating specific injuries.</li> <li>i. Identify the common injuries to specific body parts.</li> <li>ii. Apply proper treatment for specific injuries of the above body parts.</li> </ul> </li> <li>b. Describe the concepts for treatment of poisoning.</li> </ul>
Chapter 12: Emergency Situations  This chapter focuses on the nursing assistant's responsibility to recognize and	80 minutes 2 periods	(1) UNIT 1: Course Orientation and Safety Review  a. Review and demonstrate the proper safety procedures in the healthcare setting.  i. Utilize emergency procedures and protocols.

Course Name: CTE: Healthcare and Clinical Ser	vices (995105)	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
respond quickly to emergency situations. It emphasizes the importance of being prepared through training, since emergencies often require immediate action. CPR certification is a key requirement, and nursing assistants must also know how to use equipment like automated external defibrillators (AEDs) during cardiac arrest. The chapter also covers how to assist choking patients using abdominal thrusts or CPR, and highlights the skills needed to care for patients experiencing seizures.		a. Perform skills obtained in training or certification for basic life support according to the latest information from the American Heart Association or American Red Cross.  i. Demonstrate the procedure for administering cardiopulmonary resuscitation (CPR) to infants, children, and adults.  ii. Demonstrate the procedure for administering CPR using an automated external defibrillator (AED) for infants, children, and adults.  iii. Demonstrate the procedure for removal of foreign-body airway obstruction for infants, children, and adults.  ) UNIT 6: First Aid  a. Discuss and demonstrate the necessary skills to provide first aid treatment.  i. Describe the basic principles of first aid.  b. Describe and demonstrate the concepts for treatment of bleeding wounds and the application of dressing and bandages.  i. Differentiate between arterial bleeding and venous bleeding.  ii. Identify types of wounds.  iii. Identify signs and symptoms of internal bleeding.

Course Name: CTE: Healthcare and Clinical Services (995105)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		iv. Apply the proper procedure for treating a major and
		minor wound.
		c. Describe the concepts for treating shock.
		i. Differentiate between the types of shock.
		ii. Identify the general signs and symptoms of shock.
		d. Describe the concepts for treating injuries that result from
		exposure to extreme heat and cold.
		i. Differentiate between the types of heat/cold-related
		injuries/illnesses
		ii. Apply the proper procedure for treating a heat/cold-
		related illness.
		e. Describe the concepts for treating burns.
		i. Differentiate between the types of burns.
		ii. Apply the proper procedure for treating a burn.
		f. Describe the concepts for treating sudden illnesses.
		i. Differentiate between emergency conditions.
		ii. Apply the proper procedure treating the above
		sudden illnesses.
		g. In student groups, create scenarios and simulate any of the
		above first aid skills.
Chapter 13: Body Systems and Common	265 minutes	(1) UNIT 3: Human Growth and Development
Diseases	6 periods	a. Discuss the stages of growth and development across the
		lifespan.
This chapter provides an overview of how the		
human body is structured, beginning with		
cells that form tissues, which then form		

Course Name: CTE: Healthcare and Clinical Se	rvices (995105)  Course Credit: 1.0  Course Requirements:. Grades 11-12.  Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
organs and body systems. Each system has a specific function that contributes to the body's overall balance, known as homeostasis. The chapter explains that disease occurs when this balance is disrupted, and that signs and symptoms help identify these changes. It also introduces various types of disease—acute or chronic, mental or physical—and connects common disorders to the specific body systems they affect.	i. Describe the four main types of growth and development (physical, mental, emotional, and social) that occur within the stages of life.  b. Present on a topic related to the concepts of human growth and development.  i. Research, develop, and deliver a presentation related to at least one of the topics in Competencies 1-3.  (2) UNIT 6: First Aid  a. Describe the concepts for treating skeletal injuries.  i. Identify and describe fractures and dislocations.  ii. Describe the following types of immobilization devices and their proper use:  iii. Apply the proper procedure for treating a skeletal injury.  (3) UNIT 9: Nursing Services  a. Demonstrate basic nursing skills.  i. Apply the proper procedures for the following:  (4) UNIT 13: Mental Health Services  a. Explore the field of mental health services.  i. Research and describe the respective educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information of various careers.

Course Name: CTE: Healthcare and Clinical Services (995105)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	b. Describe the basic concepts related to the field of mental
	health.
	i. Using resources from the National Alliance of Mental
	Illness (NAMI), differentiate between mental
	disorders.
	ii. Eating disorders
	iii. Research and identify forms of therapy.
	c. Discuss the correlation between mental health issues and
	negative responses to those issues.
	i. Using resources such as NAMI and the Mississippi
	Department of Mental Health, research and evaluate
	the current state and national data on various topics.
	ii. In a group setting, discuss the importance of the
	various topics below.
	(5) UNIT 16: Respiratory Care Services
	<ul> <li>a. Explore the field of respiratory therapy.</li> </ul>
	i. Research and describe the respective educational
	requirements, appropriate schools,
	licensure/certification/registration, work
	environment, job responsibilities, and salary
	information for various careers.
	b. Describe the basic concepts related to the field of
	respiratory therapy.
	i. Identify and provide the rationale for basic
	respiratory tests and procedures.

Course Name: CTE: Healthcare and Clinical Ser		Course Credit: 1.0
Course Name: CTE. Hearthcare and emilical ser	VICC3 (333103)	Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
		ii. Define medical conditions related to respiratory
		care.
		(6) UNIT 18: Clinical Capstone Project
		a. Students will research and learn about common diseases
		and disorders that affect human beings, including
		symptoms, causes, and treatments.
		i. Select a disease or disorder that will be tracked in
		the fictional patient. See the table below for
		common disease and disorder ideas.
Chapter 14: Vital Signs	115 minutes	(1) UNIT 7: Vital Signs
	3 periods	a. Research key terms and concepts for recording vital signs.
This chapter emphasizes the importance of		i. Define the key terms and concepts for recording vital
accurately measuring a patient's vital signs to		signs.
assess overall health and detect potential		b. Identify expected normal ranges and the implications of
problems. It explains that the frequency of		, , ,
these measurements depends on the		each.
patient's condition and that any abnormal		i. Research and define the current normal range for
findings must be reported immediately.		adult blood pressure according to the American
Nursing assistants must be skilled in using the		Heart Association.
correct instruments to ensure accuracy,		ii. Identify the expected normal ranges for adult pulse
including when measuring pain with		rate, oxygenation percentage, respiration rate, and
appropriate pain scales. In addition to vital signs, height and weight are essential		temperatures.
measurements that influence care plans and		iii. Discuss the factors that cause variations in adult
medication dosing, making the nursing		pulse rate, oxygenation percentage, respiratory rate,
assistant's precision and reliability crucial to		temperatures, and blood pressure.
patient care.		temperatures, and brood pressure.
·		

Course Name: CTE: Healthcare and Clinical Services (995105)	Course Credit: 1.0
	Course Requirements:. Grades 11-12.
	Prerequisites: None.
	Recommended Prerequisites: Click or tap here to enter text.
	c. Demonstrate proper procedures for measuring and
	recording vital signs according to HOSA standards.
	i. Measure and record oral, rectal, axillary, and
	tympanic temperatures accurately.
	ii. Measure and record apical and radial pulse to an
	accuracy of + 2 beats per minute.
	iii. Measure and record respirations to an accuracy of +
	2 of instructor's count.
	iv. Measure and record blood pressure to an accuracy
	of + 2 millimeters of actual reading.
	(2) UNIT 8: Medical Services
	a. Describe basic medical assistant concepts and procedures.
	(3) UNIT 11: Medical Imaging Services
	<ul> <li>a. Explore the field of medical imaging services.</li> </ul>
	i. Research and describe the respective educational
	requirements, appropriate schools,
	licensure/certification/registration, work
	environment, job responsibilities, and salary
	information of various careers.
	b. Describe basic concepts and perform skills related to the
	field of medical imaging.
	i. Define specific medical imaging procedures.
	ii. Demonstrate basic radiological positioning, including
	posterior-anterior, anterior-posterior, lateral, and
	oblique.

Course Name: CTE: Healthcare and Clinical Se		Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.  (4) UNIT 16: Respiratory Care Services  a. Describe the basic concepts related to the field of respiratory therapy.  i. Identify and provide the rationale for basic respiratory tests and procedures.  ii. Define medical conditions related to respiratory
Chapter 15: Positioning, Moving, and Ambulation  This chapter highlights the importance of promoting movement, activity, and proper body alignment for all patients. It explains the use of specific techniques and positioning devices to ensure safety and comfort while patients are at rest or being transferred. Regular turning of patients is essential to prevent skin breakdown, especially over bony areas. The chapter also emphasizes maintaining patient privacy and comfort during transport and the correct use of ambulation equipment to prevent accidents and injuries.	105 minutes 2 periods	(1) UNIT 9: Nursing Services  a. Demonstrate basic nursing skills.  i. Apply the proper procedures for the following:  (2) UNIT 15: Rehabilitative Services  a. Demonstrate the proper procedures related to ambulation and assistive devices, according to HOSA standards.  i. Apply the proper procedure for fitting a patient with crutches and giving instruction for a three-point gait.  ii. Apply the proper procedure for ambulating a patient with a gait belt.  iii. Apply procedure for fitting and ambulating a patient with a walker and cane.
Chapter 16: Admission, Transfer, and Discharge	50 minutes 1 period	

Scope & Sequence – Pearson: Nursing Careers, ©2		Course Credit: 1.0
Course Name: CTE: Healthcare and Clinical Se	rvices (995105)	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
This chapter explains the nursing assistant's important role in creating a positive experience for patients during admission, transfer, and discharge. A caring attitude helps set the tone for a patient's stay, while following facility policies ensures safety and continuity of care. The chapter emphasizes the importance of tracking and documenting the patient's personal belongings throughout their stay. It also highlights the differences between acute and long-term care admissions, noting that long-term care patients often require emotional support to cope with loss and adjust to their new living environment.		
Chapter 17: The Patient's Environment	55 minutes	(1) UNIT 9: Nursing Services
This chapter focuses on creating and maintaining a patient environment that supports safety, independence, and personal preferences. It emphasizes the importance of cleanliness as a key component of quality care and the need to ensure patient privacy through the use of doors or curtains. The chapter also introduces different bedmaking techniques based on patient needs. Additionally, it stresses the use of proper body mechanics by nursing assistants to	1 period	a. Acting as a CNA in a role-play simulation, apply the proper procedure for morning care on a patient in an occupied bed, including recording vital signs and any two of the above skills.

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Course Name: CTE: Healthcare and Clinical Services (995105)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
prevent injury while performing tasks like		
bedmaking.		
Chapter 18: Hygiene and Grooming	100 minutes	(1) UNIT 9: Nursing Services
	2 periods	a. Demonstrate basic nursing skills.
This chapter covers the nursing assistant's		i. Apply the proper procedures for the following:
role in supporting patients with hygiene and		b. Acting as a CNA in a role-play simulation, apply the proper
grooming as part of their daily care. It		procedure for morning care on a patient in an occupied bed,
encourages promoting patient independence		including recording vital signs and any two of the above
while ensuring privacy, dignity, and respect		
during all procedures. The chapter		skills.
emphasizes safety and cleanliness during		
bathing, proper oral care, and the use of		
comfort techniques like back rubs to enhance		
circulation. Special attention is required		
when handling personal items such as		
dentures, hearing aids, and glasses, and		
wearing gloves during hygiene tasks is		
essential for infection control.		
Chapter 19: Special Skin Care	50 minutes	
	1 period	
This chapter discusses the prevention and		
care of pressure injuries, which can affect any		
patient but are more common in those at		
higher risk. Nursing assistants are responsible		
for identifying at-risk patients and taking		
proactive measures to prevent skin		
breakdown. The chapter explains that		

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Course Name: CTE: Healthcare and Clinical Serv	ices (995105)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
prolonged pressure, shearing, and friction are major causes of these injuries, and emphasizes the importance of keeping the skin clean and dry. It also introduces the use of special equipment designed to prevent or aid in the healing of pressure injuries.		
Chapter 20: Nutrition  This chapter emphasizes the importance of proper nutrition for maintaining good health and highlights the various factors that influence food choices. It introduces the five food groups and explains how nursing assistants must be familiar with both general and therapeutic diets. In long-term care settings, residents may be given liberalized diets to enhance nutrition and quality of life. The chapter also covers the nursing assistant's responsibilities during mealtime, including feeding patients, offering snacks and fluids, tracking intake, and caring for patients who require feeding tubes.	75 minutes 2 periods	<ul> <li>(1) UNIT 4: Nutrition and Dietetics <ul> <li>a. Explore the field of nutrition and dietetic services.</li> <li>i. Research and describe the respective educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information for various careers.</li> <li>b. Describe the basic concepts and demonstrate skills related to the field of nutrition and dietetic services. <ul> <li>i. Differentiate between the six essential nutrient groups:</li> <li>ii. Define the following therapeutic diets and associated medical conditions.</li> </ul> </li> <li>c. Design a personal health meal plan utilizing online resources or applications.</li> </ul></li></ul>
Chapter 21: Elimination Needs  This chapter explains the importance of the body's elimination process and the challenges some patients may face in	75 minutes 2 periods	

managing their own toileting needs. It introduces various types of equipment used to assist patients who are weak or bedridden. The chapter also highlights two essential care procedures—perineal care and catheter care—that nursing assistants must learn to		Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
maintain patient hygiene, comfort, and health.  Chapter 22: Specimen Collection and Testing  This chapter introduces the reasons for collecting medical specimens and emphasizes the importance of following correct procedures to ensure accurate test results. Nursing assistants must be familiar with the proper collection techniques and use of specialized equipment. The chapter also reinforces the need to follow standard precautions at all times to maintain safety and prevent contamination during specimen collection.	50 minutes 1 period	(1) UNIT 10: Laboratory Services  a. Explore the field of laboratory services.  i. Research and describe the respective educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information of various careers.  b. Describe the basic concepts and skills of laboratory services.  i. Define basic laboratory diagnostic tests.  ii. Describe methods of collecting various specimens.
Chapter 23: AM and PM Care  This chapter focuses on the importance of rest and sleep for a patient's physical and mental health. It highlights the nursing assistant's key role in supporting patients'	30 minutes 1 period	

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Course Name: CTE: Healthcare and Clinical Ser	vices (995105)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
rest needs during both day and night. The chapter also emphasizes that each patient has unique sleep patterns shaped by their personal history, work habits, and family routines, which must be respected and accommodated in their care.  Chapter 24: Restorative Care and Rehabilitation  This chapter explains how illness, injury, surgery, or extended inactivity can lead to a loss of body function. It introduces restorative care as a method of helping patients regain and maintain their health and independence. The chapter also distinguishes	70 minutes 2 periods	(1) UNIT 15: Rehabilitative Services  a. Explore the field of rehabilitative services.  i. Research and describe the respective educational requirements, appropriate schools, licensure/certification/registration, work environment, job responsibilities, and salary information for various careers.  b. Describe and demonstrate the basic concepts of range of
rehabilitation as a more intensive process aimed at achieving the highest possible level of functioning for each patient.		motion (ROM).  i. Differentiate between active and passive ROM.  ii. Identify basic terminology related to ROM.  iii. Demonstrate the proper procedure passive range of motion (PROM) for one knee, one ankle, and one shoulder.
Chapter 25: Additional Patient Care Procedures  This chapter covers supplemental care procedures such as the use of heat and cold treatments to relieve pain. It emphasizes the	75 minutes 2 periods	(1) UNIT 8: Medical Services  a. Describe basic medical assistant concepts and procedures.  i. Identify the concepts related to physical exams.  ii. Apply proper procedure.  (2) UNIT 11: Medical Imaging Services

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Course Name: CTE: Healthcare and Clinical Services (995105)		Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
importance of applying these treatments		a. Describe basic concepts and perform skills related to the
safely and appropriately. The chapter also		field of medical imaging.
outlines the nursing assistant's		<ol> <li>Define specific medical imaging procedures.</li> </ol>
responsibilities before, during, and after		ii. Demonstrate basic radiological positioning, including
patient examinations. Additionally, it notes		posterior-anterior, anterior-posterior, lateral, and
that special procedures must always be performed under the direct supervision of a		oblique.
licensed nurse to ensure patient safety.		(3) UNIT 18: Clinical Capstone Project
neerised harse to erisare patient surety.		a. Students will research and learn about common diseases
		and disorders that affect human beings, including
		symptoms, causes, and treatments.
		, , , , , , , , , , , , , , , , , , , ,
		i. Record the patient care process as needed in the
		state-approved digital portfolio.
Chapter 26: Preoperative and Postoperative	60 minutes	(1) UNIT 16: Respiratory Care Services
Care	1 period	a. Describe the basic concepts related to the field of
		respiratory therapy.
This chapter introduces the nursing		
assistant's role in caring for surgical patients,		
with a focus on both preoperative and		
postoperative care. It emphasizes the		
importance of addressing patients' physical		
and emotional needs before surgery to		
promote comfort and reduce anxiety. After surgery, safety becomes the top priority, with		
frequent repositioning, gradual movement,		
and close observation being essential to		
prevent complications. The chapter also		
highlights the need for early ambulation and		

Scope & Sequence – Pearson: Nursing Careers, © 2026

Course Name: CTE: Healthcare and Clinical Services (995105)  exercise to reduce the risk of blood clots and		Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None. Recommended Prerequisites: Click or tap here to enter text.
aid in recovery.		
This chapter explains subacute care, also called transitional care, which provides a bridge between hospital and home for patients needing continued but complex medical attention. These patients often require services such as IV therapy, ventilator support, and ongoing rehabilitation. Nursing assistants working in subacute settings must have advanced skills to manage patients connected to multiple devices and treatments. The chapter also emphasizes the importance of accurate documentation, both for patient progress and insurance purposes, and highlights the nursing assistant's role as part of the interdisciplinary care team.	45 minutes 1 period	<ul> <li>(1) UNIT 7: Vital Signs <ul> <li>a. Research key terms and concepts for recording vital signs.</li> <li>i. Define the key terms and concepts for recording vital signs.</li> </ul> </li> <li>b. Identify expected normal ranges and the implications of each. <ul> <li>i. Research and define the current normal range for adult blood pressure according to the American Heart Association.</li> <li>ii. Identify the expected normal ranges for adult pulse rate, oxygenation percentage, respiration rate, and temperatures.</li> <li>iii. Discuss the factors that cause variations in adult pulse rate, oxygenation percentage, respiratory rate, temperatures, and blood pressure.</li> </ul> </li> <li>c. Demonstrate proper procedures for measuring and recording vital signs according to HOSA standards. <ul> <li>i. Measure and record oral, rectal, axillary, and tympanic temperatures accurately.</li> <li>ii. Measure and record apical and radial pulse to an accuracy of + 2 beats per minute.</li> </ul> </li> </ul>

Course Name: CTE: Healthcare and Clinical Serv	rices (995105)	Course Credit: 1.0 Course Requirements:. Grades 11-12. Prerequisites: None.
Chapter 28: Special Skills in Long-Term Care  This chapter explores the specialized skills nursing assistants need when caring for residents in long-term care facilities. These facilities serve individuals of all ages with chronic illnesses or permanent disabilities, though most residents are elderly. Nursing assistants must understand and adapt to residents' physical and cognitive limitations while respecting their cultural, emotional, and spiritual needs. The chapter also highlights the importance of family support and introduces communication techniques for working with residents who have cognitive impairments, including those with dementia or Alzheimer's disease.	100 minutes 2 periods	Recommended Prerequisites: Click or tap here to enter text.  iii. Measure and record respirations to an accuracy of + 2 of instructor's count.  iv. Measure and record blood pressure to an accuracy of + 2 millimeters of actual reading.  (1) UNIT 13: Mental Health Services  a. Describe the basic concepts related to the field of mental health.  i. Research and identify forms of therapy.  b. Discuss the correlation between mental health issues and negative responses to those issues.  i. Using resources such as NAMI and the Mississippi Department of Mental Health, research and evaluate the current state and national data on various topics.  ii. In a group setting, discuss the importance of the various topics below.
Chapter 29: Death and Dying  This chapter addresses the emotional and practical aspects of caring for dying patients and their families. It emphasizes the nursing assistant's role in providing compassionate, person-centered support during this difficult	55 minutes 1 period	<ul> <li>(1) UNIT 3: Human Growth and Development         <ul> <li>a. Explain the concepts related to death and dying.</li> <li>i. Describe Dr. Kubler Ross's five stages of grief.</li> </ul> </li> </ul>

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Course Name: CTE: Healthcare and Clinical Service	es (995105)	Course Credit: 1.0
		Course Requirements:. Grades 11-12.
		Prerequisites: None.
		Recommended Prerequisites: Click or tap here to enter text.
time. The chapter explores key concepts such as advance directives, hospice care, and organ or tissue donation. It also explains how to recognize the physical signs of approaching death and outlines the procedures for both care at the time of death and postmortem care.		

## **Standards Correlations**

MS CTE Health Science Core 1 (995102)	Health Science Fundamentals Page Numbers
Unit 1: Orientation and Introduction to Student	
Organizations	
Competencies and Suggested Objectives	
Describe the purpose of the course and related student	
organizations. DOK1	
a. Identify student and course expectations.	n/a
b. Explore the health science student organization, HOSA.	p. 92
Describe parliamentary procedures.	p. 92
Discuss officer roles and responsibilities.	p. 92
c. Discuss leadership and personal development in accordance with HOSA guidelines.	p. 92
Unit 2: Safety in Health Care	
Competencies and Suggested Objectives	
1. Demonstrate personal and environmental safety practices.	pp. 506-515
a. Apply principles of body mechanics.	p. 529
b. Based on regulations set by the Occupational Safety and	
Health Association (OSHA and the Center for Disease Control and	- F1F
Prevention (CDC), apply safety techniques (personal and patient)	p. 515
in the health care setting to prevent accidents and injuries.	
2. Identify common safety hazards. DOK2	p. 20; 115; 122
a. Comply with safety signs, symbols, and labels in accordance with OSHA and the CDC.	p. 515
b. Recognize Safety Data Sheets (SDS) and discuss safety implications of handling hazardous materials (checking labels and	p. 748
3. Utilize emergency procedures and protocols. DOK3	p. 543
a. Practice fire safety and discuss fire evacuation plans in a health care setting. Include the following:	p. 522; 767
PASS – Pull, Aim, Squeeze, Sweep	p. 524
RACE – Rescue, Activate, Contain, Extinguish/Evacuate	p. 524
b. Apply principles of basic emergency response in natural	p. 32 1
Safe location	p. 524
Contact emergency personnel	p. 524
Follow facility protocols	p. 524
Unit 3: Career Preparation	
Competencies and Suggested Objectives	
1. Explore various careers in the health care field. DOK2	pp. 46-52
a. Choose at least three specific careers from the list created in	pp. 67-68
b. Research the educational requirements, appropriate schools,	
licensure/certification/registration, work environment, job	p. 68
responsibilities, and salary information of each one.	

MS CTE Health Science Core 1 (995102)	Health Science Fundamentals Page Numbers
c. Based on research, develop a presentation explaining the	p. 68
three careers and why they were chosen	
2. Utilize the approved method of clinical hour documentation (e.g., AET or other state approved method of documentation).	pp. 832-833
3. Explore the various career options in the health care field.	p. 51
a. Research and list various career options.	p. 44
Emergency services	p. 55; 67
Respiratory care	p. 67
Human growth and development	pp. 394-401
Sports medicine	p. 324; pp. 771-774
Rehabilitative services	p. 413; pp. 799-801
Medical services	p. 53; 63
Nursing services	p. 67
Nutrition and dietetics	pp. 347-353
Mental health	p. 438
Pharmacology	p.742
Laboratory services	p. 58; 701; 743
Medical imaging	p. 59
Health information management	pp. 61-62
4. Relate the importance of lifelong learning to career success.	
a. Consider emergent technology (e.g., artificial intelligence,	_
automation, telehealth, robotics, etc.).	p. 67
b. Develop an oral and/or written report explaining the	
importance of lifelong learning in maintaining career relevance	p. 67
Enrichment	
Conduct practice interviews or answer a list of possible	
interview questions.	p. 82
2. Conduct a personality test or review previous results to	
facilitate discussion ofindividualized careers.individualized careers.	p. 44
Unit 4: Health Care Delivery Systems	
Competencies and Suggested Objectives	
1. Research and discuss health care delivery systems and health	
organizations. DOK1	p. 28
a. Differentiate between health care delivery systems, including	
nonprofit and for-profit facilities	pp. 28-37
Hospitals	p. 36
Ambulatory/outpatient clinics	p. 36
Long-term care	p. 36
Home health	p. 36
Medical and dental offices	p. 36
Behavioral and mental health services	p. 36

MS CTE Health Science Core 1 (995102)	Health Science Fundamentals Page Numbers
Public health	p. 36
b. Identify health organizations and their respective roles.	pp. 40-41; 92
Government:	
o Centers for Disease Control and Prevention (CDC),	
Occupational Safety and Health Administration (OSHA), U.S. Food	p. 32; 829
and Drug Administration (FDA), National Institute of Health (NIH),	
Nonprofit organizations:	p. 32; 829
o March of Dimes, American Heart Association, American	
Diabetes Association, American Red Cross, Alzheimer's Association,	p. 14; 33; 530
American Lung Assoc	
Global:	
o World Health Organization (WHO)	p. 31
2. Relate the importance of lifelong learning to career success.	p. 31
a. Considering 21st-century emergent technology (e.g., artificial	n 12, 26, 01
intelligence, automation, telehealth, robotics, etc.).	p. 12; 26; 91
b. Develop an oral and/or written report explaining the	. 12, 26, 02
importance of lifelong learning inmaintaining career relevance and	p. 12; 26; 92
Unit 5: Infection Awareness and Prevention	
Competencies and Suggested Objectives	
1. Explain the principles of infection control. DOK1	pp. 467-470; 479
a. Research and explain:	
Chain of infection	p. 473
Mode of transmission: direct, indirect, vectors, common	
vehicle (air, food, water), health care associated infections	pp. 497-500
(nosocomial), opportunistic.	
Types of infections: endogenous, exogenous	p. 472
Microorganisms: nonpathogenic, pathogenic, aerobic,	pp. 469-470
anaerobic	
b. Classify the following microorganisms and diseases:	pp. 476-488
Bacterial:	pp. 476-488
o Meningitis	pp. 476-488
o Methicillin-resistant staphylococcus	pp. 476-488
o Pertussis	pp. 476-488
o Pneumonia	pp. 476-488
o Strep throat	pp. 476-488
o Tetanus	pp. 476-488
o Tuberculosis	pp. 476-488
• Fungal:	pp. 476-488
o Athlete's foot	pp. 476-488
o Histoplasmosis	pp. 476-488
o Ring Worm	pp. 476-488

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o Thrush	pp. 476-488
o Yeast vaginitis	pp. 476-488
Parasites (Helminths):	pp. 476-488
o Hook worms or flukes	pp. 476-488
o Pin worms	pp. 476-488
o Tape worms	pp. 476-488
Parasites (Rickettsia):	pp. 476-488
o Rocky Mountain spotted fever	pp. 476-488
o Typhus fever	pp. 476-488
• Protozoa:	pp. 476-488
o Amebic dysentery	pp. 476-488
o Malaria	pp. 476-488
• Viruses:	pp. 476-488
o Chicken pox	pp. 476-488
o Covid 19	pp. 476-488
o Common cold	pp. 476-488
o Hepatitis (A, B, C)	pp. 476-488
o Herpes	pp. 476-488
o HIV	pp. 476-488
o Influenza (seasonal, H1N1, H5N1)	pp. 476-488
o Measles	pp. 476-488
o Mumps	pp. 476-488
o Polio	pp. 476-488
o RSV	pp. 476-488
o Warts	pp. 476-488
o West Nile virus (WNV)	pp. 476-488
c. Identify the levels of aseptic control.	pp. 476-488
Antisepsis	pp. 476-488
Disinfection	pp. 476-488
Sterilization	pp. 476-488
d. Demonstrate the proper procedure for aseptic hand washing according to the CDC.	p. 476
2. Explain standard precaution based on OSHA and CDC	p. 477
a. Describe OSHA's blood-borne pathogen standards.	p. 502
b. Explore employer requirements according to the Needle Stick Safety and Prevention Act	p. 477
c. Demonstrate the basic rules of standard precaution.	p. 759
3. Utilize the principles of sterile technique. DOK3	p. 759
a. Demonstrate skills related to sterile technique.	p. 759
Donning sterile gloves	p. 494
Sterile dressing	p. 496

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Maintaining a sterile field	p. 496
Wrapping instruments for sterilization	p. 485
4. Explain the importance of maintaining transmission-based isolation precautions. DOK3	p. 487
a. Identify and explain the types of isolation precautions needed to prevent the spread of communicable diseases	p. 487-497
Airborne	p. 497
Droplet	p. 497
• Contact	p. 497
Reverse/protective	p. 497
b. Demonstrate the proper procedure, according to the CDC, for donning and doffing personal protective equipment (PPE).	pp. 483-486
• Gowns	pp. 483-486
Masks	pp. 483-486
• Goggles	pp. 483-486
• Gloves	pp. 483-486
5. Research the impact of emerging technology on infection Enrichment	
	nn 47C 477
1. Discuss other prevalent or interesting diseases/infections,	pp. 476-477
• Ebola/Marburg	p. 476
• Zika virus	p. 476
Lyme disease     Research and describe the following vaccinations and	p. 476
<ol><li>Research and describe the following vaccinations and diseases they prevent:</li></ol>	p. 502
• Covid 19	p. 502
• DTaP	p. 502
• Hep B	p. 502
• HPV	p. 502
Influenza	p. 502
Meningitis	p. 502
• MMR	p. 502
Monkey Pox	p. 502
• Polio	p. 502
• Shingles	p. 502
• Smallpox	p. 502
Varicella	p. 502
3. Based on the research on vaccinations, facilitate a student	- F03
led debate on the importance of vaccinations.	p. 502
4. Investigate and apply the principles in the junior disease	n/a
detective guide. (See link to guide in teacher resource guide.)	-
Unit 6: Legal and Ethical Practices in Health Care	

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Competencies and Suggested Objectives		
1. Analyze legal responsibilities and implications of criminal and	00 105	
civil law. DOK1	pp. 99-105	
a. Define and discuss torts in relation to health care.		
Malpractice	pp. 111-112	
Negligence	p. 114	
Assault and battery	p. 113	
Invasion of privacy	p. 114	
• Abuse	p. 107	
Defamation of character (libel, slander)	p. 113	
False imprisonment	p. 114	
2. Describe and demonstrate legal practices associated with		
health care. DOK2		
a. Apply the standards for safety, privacy, and confidentiality of		
health information, including topics such as the Health Insurance	p. 111	
Portability and Accountability Act and privileged communications		
b. Describe advance directives, including topics such as living	- 111	
wills and durable power of attorney.	p. 111	
c. Define types of consent/contracts, including informed	n 111	
consent, implied contracts, andexpressed contracts.	p. 111	
d. Research and discuss the meaning of scope of practice.	p. 115	
3. Utilize procedures for reporting activities and behaviors that		
affect the health, safety, and the welfare of others. DOK2		
a. Discuss the chain of command for reporting issues.	pp. 28-35	
b. Complete an incident report.	p. 767	
4. Recognize and discuss ethical boundaries within the health care environment. DOK3	p. 126; 502	
a. Differentiate between ethical and legal issues impacting	p. 126; 502	
b. Identify and explain ethical dilemmas associated with organ		
donation, invitrofertilization, euthanasia, stem cell research, and	p. 126; 420	
5. Identify cultural, social, and ethnic diversity within the health	pp. 170-177	
care environment. DOK3		
a. Compare religious, spiritual, and cultural—including		
ethnicity, race, religion, andgender—values as they impact health	p. 100, 122	
care.		
b. Within a role-play situation, demonstrate respectful and	24.191	
empathetic treatment of all patients and clients.	p. 24; 181	
Enrichment		
1. Use with Competency 2:		

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a. Summarize the American Hospital Association's Patient Care Partnership (for acutecare, formerly known as Patient's Bill of Rights) and the Resident's Bill of Rights (forlong-term care).	pp. 100-103
b. Discuss scenarios and laws concerning various types of harassment/violence in the workplace	pp. 113-114
2. Use with Competency 4:     a. After completing each objective, facilitate a student led	p. 17; 109
debate on one or multiple ofthe topics listed in the competency.  Unit 7: Communication and Teamwork	,
Competencies and Suggested Objectives	. 167
1. Describe the concepts of effective communication. DOK2	p. 167
a. Interpret verbal and nonverbal communication.	p. 194
b. Recognize barriers to communication, including physical disabilities (aphasia, hearing loss, impaired vision), psychological barriers (attitudes, bias, prejudice, stereotypes), language barriers.	p. 194
c. Differentiate subjective and objective information.	p. 214
d. Recognize the elements of communication using a sender- receiver model.	p. 198
e. Demonstrate speaking and active listening skills.	p. 194
f. Demonstrate elements of proper written and electronic communication (e.g., spelling, grammar, and formatting).  2. Compare the roles and responsibilities of individual members	nn 53-55
·	
a. Describe roles and responsibilities of team members.	p. 180
·	p. 82; 89-90
Responsibilities of team members	pp. 86-91
Benefits of teamwork	p. 84
b. Recognize and demonstrate characteristics of effective	p. 173; 193
Active participation	p. 173
Cultural humility	p. 173
Reliability	p. 173; 193
Civility	p. 173; 193
• Flexibility	p. 173; 193
• Trust	p. 173; 193
Commitment	p. 173; 193
Open to feedback	p. 173; 193
Collaboration	p. 173; 193
Positive attitude	p. 173; 193

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3. Explain the principles of interacting effectively and sensitively with all members of the health care team. DOK3  a. Recognize methods for building positive team relationships,	pp. 193-194
including montorching and to ambuilding	p. 75; 94
b. Analyze attributes and attitudes of an effective leader.	pp. 89-90
Characteristics: interpersonal skills, focused on results, positive	p. 90
Types: autocratic, democratic, laissez-faire	p. 91; 177
Roles: sets vision, leads change, manages accountability	pp. 91-92
c. Apply effective techniques for managing team conflict.	p. 180
Negotiation	p. 180
Clear expectations	p. 194
Assertive communication	p. 194
Mediation	p. 180
Gather the facts	p. 179
Unit 8: Medical Terminology and Abbreviations	
Competencies and Suggested Objectives	
1. Introduce appropriate medical terminology and	
abbreviations as found in Appendix C. DOK1	pp. 235-239
a. Use roots, prefixes, and suffixes to communicate	p. 245
b. Use medical abbreviations to communicate information.	p. 246
Unit 9: Body Organization	
Competencies and Suggested Objectives	
1. Describe the basic organization of the body. DOK1	
a. Identify the basic levels of organization of the human body.	
Chemical	p. 302
Cellular	p. 336
• Tissue	p. 888
• Organs	p. 339
Systems	pp. 308; 339-354
Organism	p. 308
2. Discuss the tissue organization of the body. DOK1	
a. Identify the four major categories of tissues and their	200 200
respective locations, structures, and basic functions.	pp. 308-309
Nerve	pp. 308-309
Epithelium	pp. 308-309
Muscle (cardiac, smooth, skeletal)	pp. 308-309
Connective (ligaments, tendons, facia)	pp. 308-309
3. Identify the body planes, directional terms, cavities,	
quadrants, and regions. DOK1	
a. Body planes: sagittal, midsagittal, coronal/frontal,	p. 308

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b. Directional terms: superior, inferior, anterior/ventral, posterior/dorsal, medial, lateral, proximal, distal, superficial, deep,	p. 308
c. Cavities: dorsal, cranial, nasal, oral, orbital, spinal, thoracic, abdominal, pelvic	pp. 308-309
d. Quadrants: upper right, lower right, upper left, lower left	pp. 308-309
e. Regions: Right/left hypochondriac, right/left lumbar, right/left iliac, epigastric, umbilical, hypogastric	pp. 308-309
Unit 10: Integumentary System	
Competencies and Suggested Objectives	
1. Discuss the structures and functions of the integumentary	pp. 380-384
a. Identify the parts comprising the integumentary system and their respective functions.	pp. 380-384
Layers: epidermis, dermis, subcutaneous	p. 384
Structures: sudoriferous glands, sebaceous glands, hair follicles, hair shaft	p. 384
• Functions: protection, sensory perception, temperature regulation (vasodilation, vasoconstriction), storage, absorption, excretion, production	p. 384
b. Define and discuss pigmentation and related topics.	p. 363
Melanin	
Carotene	
• Albino	
c. Define and discuss skin discoloration and related topics:	
Erythema	p. 384
Jaundice	p. 384
Cyanosis	p. 384
2. Explain diseases and disorders of the integumentary system and related signs, symptoms, treatment, and prevention methods.	
a. Identify the general signs, symptoms, treatment, and prevention methods associated with diseases and disorders of the	p. 384
Acne vulgaris	p. 384
Athlete's foot	p. 384
Basal cell carcinoma	p. 384
Dermatitis	p. 384
• Eczema	p. 384
• Impetigo	p. 384
Melanoma	p. 384
Psoriasis	p. 384
Ringworm	p. 384
Squamous cell carcinoma	p. 384
Verrucae	p. 384

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b. Describe various skin eruptions.	
• Crusts	n/a
• Cysts	n/a
Macules	n/a
Papules	n/a
• Pustules	n/a
• Ulcers	n/a
• Vesicles	n/a
Wheals	n/a
3. Research the impact of emerging technology on the	p. 384
integumentary system. DOK3	
Unit 11: Skeletal System	
Competencies and Suggested Objectives	
1. Compare the structures and functions of the skeletal system	
with its relationship to movement. DOK1	
a. Identify the axial and appendicular bones.	p. 318
b. Identify the parts of a bone.	p. 309
Diaphysis	p. 309
• Endosteum	p. 309
• Epiphysis	p. 309
Medullary canal	p. 309
Periosteum	p. 309
Red marrow	p. 309
Yellow marrow	
c. Explain the functions of the skeletal system.	p. 311
Framework	p. 311
Protection	p. 311
• Levers	p. 311
Production of blood cells	p. 311
Storage	p. 311
d. Identify the types of joints and their related movements.	
Diarthrosis or synovial	p. 318
Amphiarthrosis	p. 318
Synarthrosis	p. 318
2. Discuss diseases and disorders of the skeletal system and	p. 318
related signs, symptoms, treatment, and prevention methods.	p. 310
a. Identify the general signs, symptoms, treatment, and	p. 318
prevention methods associated with skeletal diseases, disorders,	p. 3±0
Bursitis	p. 318
Osteomyelitis	p. 318
Osteoporosis	p. 318

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Osteoarthritis	p. 318
Rheumatoid arthritis	p. 318
Sprain	p. 318
Ruptured disk	p. 318
Dislocation	p. 318
Spinal curvatures: scoliosis, lordosis, and kyphosis	p. 318
• Fractures: stress, comminuted, compound or open, simple or	. 210
closed, depressed, green stick, impacted, spiral	p. 318
3. Research the impact of emerging technology on the skeletal system. DOK3	p. 318
Unit 12: Muscular System	
Competencies and Suggested Objectives	
Compare the structures and functions of the muscular	
system with its relationship to movement. DOK1	
a. Identify the three types of muscle.	p. 319
• Cardiac	p. 324-325
Visceral/smooth	p. 324-325
• Skeletal	p. 324-325
b. Define the characteristics of skeletal muscle.	
Excitability	
Contractibility	p. 318-325
Extensibility	p. 318-325
• Elasticity	p. 318-325
c. Identify major skeletal muscles.	
Biceps brachii	p. 888
Deltoid	p. 888
Gastrocnemius	p. 888
Gluteus maximus	p. 888
Intercostals	p. 888
Latissimus dorsi	p. 888
Pectoralis major	p. 888
Quadriceps femoris	p. 888
Rectus abdominis	p. 888
Sartorius	p. 888
Sternocleidomastoid	p. 888
Tibialis anterior	p. 888
Trapezius	p. 888
Triceps brachii	p. 888
d. Explain the function of the muscles.	p. 888
Movement	p. 888
Produce heat and energy	p. 888

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Maintain Posture	p. 888
Protect internal organs	p. 888
e. Demonstrate active/passive range of motion, including adduction, abduction, flexion, extension, rotation, and	p. 325
2. Discuss diseases, disorders, and injury of the muscular system and related signs, symptoms, and treatment methods.	p. 325
a. Identify the general signs, symptoms, treatment, and prevention methods associated with muscular diseases and	p. 325
Fibromyalgia	p. 325
Muscle spasms	p. 325
Muscular dystrophy	p. 325
Myasthenia gravis	p. 325
Strain	p. 325
3. Research the impact of emerging technology on the muscular system. DOK3	•
Unit 13: Cardiovascular System	
Competencies and Suggested Objectives	
1. Identify and discuss the structures and functions of the	
cardiovascular system and their role in maintaining homeostasis.	
a. Identify the components of blood and their respective	p. 333
Plasma	p. 333
Erythrocytes	p. 333
Hemoglobin	p. 333
Leukocytes	p. 333
Thrombocytes	p. 333
b. Identify the type of blood vessels and the action of each.	
• Aorta	p. 326-333
Arteries	p. 326-333
Arterioles	p. 326-333
Capillaries	p. 326-333
Inferior vena cava	p. 326-333
Pulmonary artery	p. 326-333
Pulmonary veins	p. 326-333
Superior vena cava	p. 326-333
• Veins	p. 326-333
• Venules	p. 326-333
c. Identify the anatomy of the heart.	
Layers: endocardium, myocardium, pericardium/epicardium	pp. 327-328

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• Structures: septum, right/left atriums, right/left ventricles, tricuspid valve, pulmonary valve, bicuspid/mitral valve, aortic valve	pp. 327-328
d. Describe the electrical conduction pathway.	pp. 327-328
• SA node	pp. 328-329
AV node	pp. 328-329
Bundle of HIS	pp. 328-329
Right and left bundle branches	pp. 328-329
Purkinje Fibers	pp. 328-329
e. Describe the pathway of pulmonary and systemic circulation.	pp. 328-329
f. Define systole and diastole.	pp. 328-329
2. Discuss diseases and disorders of the cardiovascular system and related signs, symptoms, treatment, and prevention methods.	рр. 328-329
a. Identify the general signs, symptoms, treatment, and prevention methods associated with cardiovascular diseases and	p. 329
Arteriosclerosis	p. 329
Atherosclerosis	p. 329
Congestive heart failure	p. 329
Hypertension	p. 329
Iron deficiency anemia	p. 329
Leukemia	p. 329
Myocardial infarction	p. 329
Sickle cell anemia	p. 329
3. Research the impact of emerging technology on the cardiovascular system. DOK3	p. 329
Unit 14: Respiratory System	
Competencies and Suggested Objectives	
Describe the structures and functions of the respiratory	pp. 339-341
a. Define inspiration and expiration.	pp. 339-341
b. Identify the structures of the respiratory system and their respective functions.	pp. 339-341
• Alveoli	pp. 339-341
Bronchi	pp. 339-341
Bronchioles	pp. 339-341
Epiglottis	pp. 339-341
• Larynx	pp. 339-341
• Lungs	pp. 339-341
Nasal cavity	pp. 339-341
Nasal septum	pp. 339-341
• Nose	pp. 339-341
• Pharynx	pp. 339-341

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• Pleura	pp. 339-341
• Sinuses	pp. 339-341
Trachea	pp. 339-341
c. Differentiate among internal, external, and cellular	pp. 339-341
2. Discuss diseases and disorders of the respiratory system and	
related signs, symptoms, and treatment methods. DOK2	
a. Identify the general signs, symptoms, treatment, and	n 241
prevention methods associated with respiratory diseases and	p. 341
Asthma	p. 341
Bronchitis	p. 341
• COPD	p. 341
• Covid 19	p. 341
Emphysema	p. 341
Influenza	p. 341
Lung cancer	p. 341
Pneumonia	p. 341
Sleep apnea	p. 341
Tuberculosis	p. 341
3. Research the impact of emerging technology on the	244
respiratory system. DOK3	p. 341
Unit 15: Digestive System	
Competencies and Suggested Objectives	
1. Describe the structures and functions of the digestive	
a. Describe the structures comprising the alimentary canal and	
their respective functions regarding the digestive process	pp. 347-348
(pathway of food, digestion, nutrient absorption).	
Mouth: teeth, tongue, hard palate, soft palate	pp. 347-348
Pharynx	pp. 347-348
Esophagus	pp. 347-348
Cardiac/esophageal sphincter	pp. 347-348
Stomach (include rugae)	pp. 347-348
Pyloric sphincter	pp. 347-348
Small intestine (include villi)	pp. 347-348
o Duodenum	pp. 347-348
o lleum	pp. 347-348
o Jejunum	pp. 347-348
Large intestine	pp. 347-348
o Cecum	pp. 347-348
o Ascending colon	pp. 347-348
o Transverse colon	pp. 347-348
o Descending colon	pp. 347-348

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o Sigmoid colon	pp. 347-348
Rectum	pp. 347-348
• Anus	pp. 347-348
b. Describe the accessory structures of the digestive system and their respective functions regarding the digestive process (pathway of food, digestion, nutrient absorption).	
Salivary glands	pp. 347-348
Pancreas	pp. 347-348
• Liver	pp. 347-348
Appendix	pp. 347-348
Gallbladder	pp. 347-348
2. Discuss diseases and disorders of the digestive system and related signs, symptoms, treatment, and prevention methods.	p. 350
a. Identify the general signs, symptoms, treatment, and prevention methods associated with diseases and disorders of the	p. 350
Appendicitis	p. 350
Cholecystitis	p. 350
Cirrhosis	p. 350
Diverticulitis	p. 350
Gastric ulcer	p. 350
• GERD	p. 350
Hepatitis type B (HBV)	p. 350
Pancreatitis	p. 350
Ulcerative colitis	p. 350
3. Research the impact of emerging technology on the digestive system. DOK3	p. 350
Unit 16: Urinary System	
Competencies and Suggested Objectives	
1. Explain the structures and functions of the urinary system as	
they relate to the formation, composition, and elimination of	
a. Identify urinary system structures and their respective	pp. 354-355
Bladder (include rugae)	pp. 354-355
Bowman's capsule	pp. 354-355
• Cortex	pp. 354-355
Glomerulus	pp. 354-355
• Hilum	pp. 354-355
Kidneys	pp. 354-355
Medulla	pp. 354-355
Nephrons	pp. 354-355
Renal pelvis	pp. 354-355
• Ureters	pp. 354-355

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Urethra	pp. 354-355
Urinary meatus	pp. 354-355
2. Discuss diseases and disorders of the urinary system and related causes, signs, symptoms, treatment, and prevention	p. 355
a. Identify the general causes, signs, symptoms, treatment, and prevention methods associated with diseases of the urinary	p. 355
• Cystitis	p. 355
Glomerulonephritis	p. 355
Pyelonephritis	p. 355
Renal calculus	p. 355
Renal failure	p. 355
• Uremia	p. 355
• Urethritis	p. 355
b. Define disorders of the urinary system.	p. 355
Albuminuria	p. 355
• Anuria	p. 355
Dysuria	p. 355
Hematuria	p. 355
• Incontinence	p. 355
Nocturia	p. 355
• Oliguria	p. 355
Polyuria	p. 355
Proteinuria	p. 355
• Pyuria	p. 355
• Retention	p. 355
3. Research the impact of emerging technology on the urinary system. DOK3	p. 356-357
Unit 17: Lymphatic System	
Competencies and Suggested Objectives	
Explain the structures and functions of the lymphatic system.	
a. Identify structures of the lymphatic system and their respective functions.	pp. 334-336
• Tonsils	pp. 334-336
• Spleen	pp. 334-336
• Lymph nodes	pp. 334-336
• Thymus	pp. 334-336
2. Discuss diseases and disorders of the lymphatic system and	
related causes, signs, symptoms, treatment, and prevention	pp. 336-338
a. Identify the general causes, signs, symptoms, treatment, and prevention methods associated with diseases and disorders of the	pp. 336-338
Adenitis	pp. 336-338

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Hodgkin's disease	pp. 336-338
Splenomegaly	pp. 336-338
Tonsillitis	pp. 336-338
3. Research the impact of emerging technology on the	p. 338
lymphatic system. DOK3	μ. 556
Unit 18: Nervous System	
Competencies and Suggested Objectives	
1. Describe the structures and functions of the nervous system.	
a. Identify the major structures of the nervous system and their	nn 267 269
respective functions.	pp. 367-368
Cerebellum	pp. 367-368
Cerebrum	pp. 367-368
Midbrain: pons, medulla oblongata	pp. 367-368
Diencephalon: thalamus, hypothalamus	pp. 367-368
Spinal cord	pp. 367-368
Meninges: dura mater, arachnoid membrane, pia mater	pp. 367-368
Ventricles	pp. 367-368
Cerebral spinal fluid	pp. 367-368
b. Describe the divisions of the nervous system.	
Central nervous system	pp. 368-369
Peripheral nervous system	pp. 368-369
Sympathetic	pp. 368-369
Parasympathetic	pp. 368-369
c. Identify the structures of a neuron and the conduction	200 200
process of a nerve impulse.	pp. 368-369
Dendrites	pp. 368-369
• Axon	pp. 368-369
Myelin sheath	pp. 368-369
Synapse	pp. 368-369
Neurotransmitters	pp. 368-369
2. Discuss diseases and disorders of the nervous system and	nn 369 360
related causes, signs, symptoms, treatment, and prevention	pp. 368-369
a. Identify the general causes, signs, symptoms, treatment, and	n 260
prevention methods associated with diseases and disorders of the	p. 369
Alzheimer's disease	p. 369
Amyotrophic lateral sclerosis	p. 369
Cerebral palsy	p. 369
Cerebrovascular accident	p. 369
Dementia	p. 369
• Epilepsy	p. 369
Meningitis	p. 369

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Multiple sclerosis	p. 369
Parkinson's disease	p. 369
• Shingles	p. 369
Traumatic Brain Injury/Concussion	p. 369
3. Research the impact of emerging technology on the nervous system. DOK3	p. 369
Unit 19: Endocrine System	
Competencies and Suggested Objectives	
I. Identify the structures and functions of the endocrine	pp. 359-361
a. Differentiate between endocrine and exocrine.	pp. 359-361
b. Identify the structures comprising the endocrine system and their respective functions.	pp. 359-361
2. Discuss diseases and disorders of the endocrine system and related causes, signs, symptoms, treatment, and prevention	pp. 359-361
a. Identify the general causes, signs, symptoms, treatment, and prevention methodsassociated with diseases and disorders of the	pp. 359-361
Acromegaly	pp. 359-361
Cushing's syndrome	pp. 359-361
<ul> <li>Diabetes mellitus (Type 1 and 2)</li> </ul>	pp. 359-361
Dwarfism	pp. 359-361
Giantism	pp. 359-361
Graves' disease	pp. 359-361
Hyperthyroidism	pp. 359-361
Hypothyroidism	pp. 359-361
3. Research the impact of emerging technology on the endocrine system. DOK3	pp. 359-361
Endocrine Table	pp. 363-364
Gland	pp. 363-364
Hormone	pp. 363-364
Action	pp. 363-364
Pituitary (Anterior Lobe)	pp. 363-364
ACTH-adrenocorticotropic	pp. 363-364
-Stimulates growth and secretion of the cortex of the adrenal	pp. 363-364
TSH-thyrotropin	pp. 363-364
-Stimulates growth and secretion of the thyroid gland	pp. 363-364
GH-somatotropin	pp. 363-364
Growth hormone; stimulates normal body growth	pp. 363-364
Pituitary (Posterior Lobe)	pp. 363-364
ADH-vasopressin	pp. 363-364
-Antidiuretic hormone; promotes reabsorption of water in kidneys, constrictsblood vessels	pp. 363-364

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Thyroid	pp. 363-364
Thyroxine & tri-iodothyronine	pp. 363-364
-Increase metabolic rate; stimulate physical and mental growth; regulate metabolism of carbohydrates, fats, and proteins	pp. 363-364
Adrenal (Cortex)	pp. 363-364
Glucocorticoids:	pp. 363-364
Cortisol-hydrocortisone	pp. 363-364
Cortisone	pp. 363-364
-Aide in metabolism of proteins, fats, and carbohydrates;	
increase amount of glucose in blood; provide resistance to stress; depress immune response (anti- inflammatory)	pp. 363-364
Gonadocorticoids:	pp. 363-364
Estrogens	pp. 363-364
Androgens	pp. 363-364
-Act as sex hormones	pp. 363-364
Stimulate female sexual characteristics	pp. 363-364
Stimulate male sexual characteristics	pp. 363-364
Adrenal (Medulla)	pp. 363-364
Epinephrine (adrenaline)	pp. 363-364
-Activates sympathetic nervous system; acts in times of stress	pp. 303-304
to increase cardiac output and increase blood pressure	pp. 363-364
Norepinephrine	pp. 363-364
Activates body in stress situations	pp. 363-364
Pancreas	pp. 363-364
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Used in metabolism of glucose (sugar) by promoting entry of	
glucose intocells to decrease blood glucose levels; promotes	pp. 363-364
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o Choroid coat	pp. 367-371
o Conjunctiva	pp. 367-371
o Cornea	pp. 367-371
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o Pupil	pp. 367-371
o Retina	pp. 367-371
o Sclera	pp. 367-371
o Vitreous Humor	pp. 367-371
• Ear:	pp. 367-371
o Auditory canal	pp. 367-371
o Cochlea	pp. 367-371
o Eustachian Tube	pp. 367-371
o Organ of Corti	pp. 367-371
o Ossicles	pp. 367-371
o Pinna/Auricle	pp. 367-371
o Semicircular canal	pp. 367-371
o Tympanic membrane	pp. 367-371
• Tongue:	pp. 367-371
o Papillae	pp. 367-371
• Nose:	pp. 367-371
o Olfactory receptors	pp. 367-371
2. Discuss diseases and disorders of the sensory organs. DOK2	pp. 367-371
a. Identify the general causes, signs, symptoms, treatment, and prevention methods associated with diseases and disorders of the	p. 371
Amblyopia	p. 371
Astigmatism	p. 371
Cataract	p. 371
Conjunctivitis	p. 371
Glaucoma	p. 371
Hearing loss (conductive, sensory)	p. 371
Meniere's disease	p. 371
Otitis externa	p. 371
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Otosclerosis	p. 371
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o Ejaculatory ducts	pp. 372-379
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	·
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2. Discuss diseases and disorders of the nervous system and related causes, signs, symptoms, treatment, and prevention methods.  a. Identify the general causes, signs, symptoms, treatment, and prevention methods associated with diseases and disorders of the nervous system.  • Alzheimer's disease  • Amyotrophic lateral sclerosis  • Cerebral palsy  Page  p. 260  p. 260  p. 260  • Alzheimer's disease  NA  • Description of the nervous system.  p. 260  p. 253, p. 259  p. 253, p. 259	Health Science Core II—Course Code: 995103	Anatomy, Physiology & Disease: An Interactive Journey for Health Professionals
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treatment, and prevention methods.  a. Identify the general causes, signs, symptoms, treatment, and prevention methods associated with diseases and disorders of the nervous system.  • Alzheimer's disease  • Amyotrophic lateral sclerosis  p. 260  NA  • Amyotrophic lateral sclerosis  p. 253, p. 259	2. Discuss diseases and disorders of the nervous	
a. Identify the general causes, signs, symptoms, treatment, and prevention methods associated with diseases and disorders of the nervous system.  • Alzheimer's disease  • Amyotrophic lateral sclerosis  p. 260  NA  • Amyotrophic lateral sclerosis  p. 253, p. 259	system and related causes, signs, symptoms,	
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<ul> <li>Alzheimer's disease</li> <li>Amyotrophic lateral sclerosis</li> <li>p. 253, p. 259</li> </ul>	treatment, and prevention methods associated	
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3. Research the impact of emerging technology on	3. Research the impact of emerging technology on	
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1. Identify the structures and functions of the	1. Identify the structures and functions of the	
endocrine system. pp. 266-267	endocrine system.	pp. 266-267
a. Differentiate between endocrine and exocrine. p. 267	a. Differentiate between endocrine and exocrine.	p. 267
system and their respective functions. (see table	system and their respective functions. (see table	
below)	below)	
Pituitary (Anterior Lobe) ACTH-adrenocorticotropic	Pituitary (Anterior Lobe) ACTH-adrenocorticotropic	
Stimulates growth and secretion of the cortex of	Stimulates growth and secretion of the cortex of	
the adrenal gland p. 273	the adrenal gland	p. 273
TSH-thyrotropin Stimulates growth and secretion of	TSH-thyrotropin Stimulates growth and secretion of	
the thyroid gland p. 273	the thyroid gland	p. 273
GH-somatotropin Growth hormone; stimulates	GH-somatotropin Growth hormone; stimulates	
normal body growth p. 276, p. 277	normal body growth	p. 276, p. 277
Pituitary (Posterior Lobe) ADH-vasopressin	Pituitary (Posterior Lobe) ADH-vasopressin	
Antidiuretic hormone; promotes reabsorption of		
water in kidneys, constricts blood vessels p. 276, p. 277	water in kidneys, constricts blood vessels	p. 276, p. 277

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Cortisone	p. 794
carbohydrates; increase amount of glucose in	
blood; provide resistance to stress; depress	
immune response (anti-inflammatory)	p. 285
Gonadocorticoids:	NA
• Estrogens	NA
Androgens	NA
Act as sex hormones	p. 286
Stimulate female sexual characteristics	p. 286
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of stress to increase cardiac output and increase	
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Norepinephrine Activates body in stress situations	
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2. Discuss diseases and disorders of the endocrine	
system and related causes, signs, symptoms,	
treatment, and prevention methods.	p. 294
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with diseases and disorders of the endocrine	
system.	p. 277, p. 289
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their respective functions.	pp. 296-306, 372, 442
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o Aqueous humor	pp. 297-300
o Choroid coat	pp. 297-300
o Conjunctiva	pp. 297-300
o Cornea	pp. 297-300
o Iris	pp. 297-300
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o Lens	pp. 297-300
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o Retina	pp. 297-300
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o Vitreous Humor	pp. 297-300
• Ear:	p. 296, p. 306
o Auditory canal	p. 296, p. 306
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• Tongue:	p. 442
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language, confidentiality, verbal communication, and	
behavior.	p. 22
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instructor and/or external supervisors.	p. 63
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the interview committee and send them using available	
methods of delivery.	p. 54
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the lifespan.	p. 109, p. 186
a. Describe the four main types of growth and development	
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the stages of life.	p. 109, p. 186
2. Describe Maslow's hierarchy of human needs.	p. 101
a. Identify and define the levels of need in the proper order.	p. 101
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3. Explain the concepts related to death and dying.	pp. 446-447
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2. Identify factors that affect healthcare systems, the	
services that are performed, and the quality of care.	pp. 32-33, p. 37
a. Research and discuss the impact of emerging issues on	
healthcare delivery systems.	pp. 32-33, p. 37
b. Review common healthcare payment methods.	pp. 32-33, p. 37
c. Describe the responsibilities of consumers within the	
healthcare system.	p. 116, p. 121
UNIT 13: Mental Health Services	
1. Explore the field of mental health services.	p. 213
a. Research and describe the respective educational	
requirements, appropriate schools,	
licensure/certification/registration, work environment, job	
responsibilities, and salary information of various careers.	p. 35, p. 118, p. 213
2. Describe the basic concepts related to the field of	
mental health.	pp. 213-216
a. Using resources from the National Alliance of Mental	
IIIness (NAMI), differentiate between mental disorders.	pp. 213-216
Eating disorders	
b. Research and identify forms of therapy.	pp. 213-216, p. 442
3. Discuss the correlation between mental health issues	
and negative responses to those issues.	pp. 213-216, p. 442
a. Using resources such as NAMI and the Mississippi	
Department of Mental Health, research and evaluate the	
current state and national data on various topics.	pp. 213-216, p. 442
b. In a group setting, discuss the importance of the various	
topics below.	pp. 213-216, p. 442
UNIT 14: Sports Medicine	
1. Explore the field of sports medicine.	NA

Healthcare and Clinical Services	Pearson Nursing Careers
MS Course 995105 -CTE:Healthcare & Clinical Services II	Page
	<u> </u>
a. Research and describe the respective educational	
requirements, appropriate schools,	
licensure/certification/registration, work environment, job	
responsibilities, and salary information for various careers.	NA
2. Describe the basic concepts of assessment in sports	
medicine.	NA
a. Identify the components of a sports physical.	NA
b. Discuss the use of SOAP notes in injury assessment.	NA
c. Differentiate between the following types of body fat	
assessment techniques.	NA
3. Analyze and apply basic injury treatment modalities in	
sports medicine.	NA
a. Identify the following components of PRICE.	NA
b. Define terms and discuss the importance of vasodilation	
and vasoconstriction, each in relation to cold/heat	
application.	NA
c. Apply the proper procedure for applying heat and cold to	
injuries.	NA
UNIT 15: Rehabilitative Services	
1. Explore the field of rehabilitative services.	pp. 376-380
a. Research and describe the respective educational	
requirements, appropriate schools,	
licensure/certification/registration, work environment, job	
responsibilities, and salary information for various careers.	pp. 376-380
2. Describe and demonstrate the basic concepts of range	
of motion (ROM).	pp. 382-384
a. Differentiate between active and passive ROM.	pp. 382-384
b. Identify basic terminology related to ROM.	pp. 382-384
c. Demonstrate the proper procedure passive range of	
motion (PROM) for one knee, one ankle, and one shoulder.	pp. 382-384
3. Demonstrate the proper procedures related to	
ambulation and assistive devices, according to HOSA	
standards.	p. 260, pp. 275-279
a. Apply the proper procedure for fitting a patient with	
crutches and giving instruction for a three-point gait.	p. 260, pp. 275-279

Healthcare and Clinical Services	Pearson Nursing Careers
MS Course 995105 -CTE:Healthcare & Clinical Services II	Page
b. Apply the proper procedure for ambulating a patient	_
with a gait belt.	p. 260, pp. 275-279
c. Apply procedure for fitting and ambulating a patient with	
a walker and cane.	p. 260, pp. 275-279
UNIT 16: Respiratory Care Services	
1. Explore the field of respiratory therapy.	pp. 191-192
a. Research and describe the respective educational	
requirements, appropriate schools,	
licensure/certification/registration, work environment, job	
responsibilities, and salary information for various careers.	pp. 191-192
2. Describe the basic concepts related to the field of	
respiratory therapy.	p. 414
a. Identify and provide the rationale for basic respiratory	
tests and procedures.	p. 161, p. 191, p. 249
b. Define medical conditions related to respiratory care.	p. 161, p. 191, p. 249
UNIT 17: Pharmacology	
1. Explore the field of pharmacological services.	NA
a. Research and describe the respective educational	
requirements, appropriate schools,	
licensure/certification/registration, work environment, job	
responsibilities, and salary information.	NA
2. Describe concepts and perform skills related to the field	
of pharmacology.	NA
a. Identify the proper components of a prescription.	NA
b. Differentiate between administration methods.	NA
c. Perform mathematical computations related to	
pharmacology.	NA
d. Given a teacher-created scenario, administer medication	
utilizing the Six Rights of Medication Administration.	NA
UNIT 18: Clinical Capstone Project	
1. Students will research and learn about common	
diseases and disorders that affect human beings, including	
symptoms, causes, and treatments.	NA

Healthcare and Clinical Services	Pearson Nursing Careers
MS Course 995105 -CTE:Healthcare & Clinical Services II	Page
a. Develop a fictional patient for the duration of the clinical capstone project, incorporating specific details and factors to characterize this individual.	p. 36
b. Select a disease or disorder that will be tracked in the fictional patient. See the table below for common disease and disorder ideas.	p. 191
c. Explore the five patient-centered steps in the patient care process and apply the process to the fictional patient by providing patient-centered care.	p. 112, p. 114, p. 117
d. Apply the patient care process to the fictional patient by providing patient-centered care as applicable.	p. 112, p. 114, p. 117
e. Report the outcome of the patient's problem in a mock scenario, illustrating the steps taken by the medical caretaker within a teacher-approved method.	p. 112, p. 114, pp. 117-118
f. Record the patient care process as needed in the state- approved digital portfolio.	p. 112, p. 114, pp. 117-118, p. 390

# **Technology Supporting Document**

#### Pearson Education: Technology Supporting Document

Mississippi Requirement	MyLab/Mastering	Bookshelf by VitalSource (etext for CTE titles)
Technology Supporting Document includes the Learning Management System (LMS) and its hardware and software capabilities. The document should include the following information:	n/a	n/a
i. Thin Common Cartridge 1.3 – IEDTECH Global Standards	We don't specifically support Thin Common Cartridge. When Pearson is integrated with an LMS using our LTI 1.3 app, the instructor can create deeplinks which are an external tool item. These can potentially be imported and exported in Thin Common Cartridge files. However, this is not a typical part of the workflow for creating or copying Pearson courseware.	Thin common cartridge employs LTI, which is fully supported.
ii. School rostering	Users are rostered into the Pearson courseware when they access their Pearson product for the first time. If the Pearson courseware is integrated with an LMS, the user will have a Pearson account created for them in most circumstances. We take the email address associated with the LMS account and make that the Pearson username, but if that username already exists in our system then we can't automatically create the account, and we ask the user to log in or create a new account instead. This is usually only a concern if the school district recycles email addresses. Returning students will be recognized by their LMS credentials and passed to their preexisting Pearson account. The experience is completely SSO after the Pearson account is successfully created and matched with the LMS account.	Rostering via LTI is fully supported.
iii. PDF and/or ePUB format	Pearson eTexts use our own format and browser. Alternative file types may be available for users with accessibility needs. Some products may include supplemental materials in PDF format.	EPUB is preferred for accessibility, but tagged PDF's will also work.

	Pearson works closely with key members of the disability and advocacy community who are committed to accessible instructional materials. We work with organizations such as W3C, the DIAGRAM Center, Book Industry Study Group, the Center for Accessible Materials Innovation, and the EDUPUB Alliance (EPUB for Education). Pearson is pleased to announce our collaboration with the Book Industry Study Group to promote the launch of Quick Start Guide to Accessible Publishing.  Pearson staff contribute time, expertise, and creativity to moving accessibility forward. We conduct user studies and a variety of research and usability studies on important topics, such as assistive technology use, and on product prototypes. We collaborate with advocacy groups and share advances and insights through conference presentations.  Students can now instantly purchase accessible digital textbooks for select Pearson titles, providing affordable, faster, and more efficient access to their learning materials.  Alternate text files for other Pearson titles are available for qualified students upon request and at no added cost, provided the student has purchased or is renting the print or digital textbook.  All other requests can be placed using Pearson's disability request form. Please understand that it may take up to 10 business days for you to receive the electronic file.  https://www.pearson.com/en-us/legal-information/accessibility.html	Pearson works closely with key members of the disability and advocacy community who are committed to accessible instructional materials. We work with organizations such as W3C, the DIAGRAM Center, Book Industry Study Group, the Center for Accessible Materials Innovation, and the EDUPUB Alliance (EPUB for Education). Pearson is pleased to announce our collaboration with the Book Industry Study Group to promote the launch of Quick Start Guide to Accessible Publishing.  Pearson staff contribute time, expertise, and creativity to moving accessibility forward. We conduct user studies and a variety of research and usability studies on important topics, such as assistive technology use, and on product prototypes. We collaborate with advocacy groups and share advances and insights through conference presentations.  Students can now instantly purchase accessible digital textbooks for select Pearson titles, providing affordable, faster, and more efficient access to their learning materials.  Alternate text files for other Pearson titles are available for qualified students upon request and at no added cost, provided the student has purchased or is renting the print or digital textbook.  All other requests can be placed using Pearson's disability request form. Please understand that it may take up to 10 business days for you to receive the electronic file.  https://www.pearson.com/en-us/legal-information/accessibility.html and https://accessibility.vitalsource.com
	We gratefully acknowledge and endorse the work of the Web Accessibility Initiative of the World Wide Web consortium on the Web Content Accessibility Guidelines (WCAG) 2.2, as well as the work of United States Access Board and the Information Technology Advisory Committee (TEITAC) on their Section 508 Refresh Drafts.  We strive to provide equal access for all students. To achieve this goal, we've created the Pearson Accessibility Guidelines for eLearning. These guidelines provide developers standards for creating the most effective educational content.  https://www.pearson.com/en-us/legal-information/accessibility.html	We gratefully acknowledge and endorse the work of the Web Accessibility Initiative of the World Wide Web consortium on the Web Content Accessibility Guidelines (WCAG) 2.2, as well as the work of United States Access Board and the Information Technology Advisory Committee (TEITAC) on their Section 508 Refresh Drafts.  We strive to provide equal access for all students. To achieve this goal, we've created the Pearson Accessibility Guidelines for eLearning. These guidelines provide developers standards for creating the most effective educational content.  https://www.pearson.com/en-us/legal-information/accessibility.html and https://accessibility.vitalsource.com
vi. Privacy-data security specifications	Pearson's privacy and data security specifications are linked here: https://www.pearson.com/en-us/privacy-center/privacy-notices.html	Vitalsource's privacy and data security specifications are linked here: https://www.pearson.com/en-us/privacy-center/privacy-notices.html and https://vitalsource.com/privacy

#### Pearson Education: Technology Supporting Document

vii. Browser and OS support	Browser & OS Support Information can be found here: https://support.pearson.com/getsupport/s/article/Using-an-Alternate-Supported-Browser	Browser and OS Support Information can be found here: https://bookshelfsupport.vitalsource.com/hc/en- us/sections/32270458995095
b. LMS is a generic term for platforms like Canvas, Google, and Schoology. A software platform designed to manage, deliver, and track educational courses, training programs, or learning and development initiatives. It provides educators with tools to create and organize content, manage student enrollments, track progress, assess performance, and facilitate communication between instructors and learners. LMSs often include discussion forums, assignment submissions, quizzes, grading, and reporting.	Our LTI 1.3 app is available for Canvas, Schoology, Blackboard, Brightspace/D2L, Moodle and Sakai. We can also integrate with Clever and Classlink, but we would suggest integrating with one of the LMSes listed instead because those integrations have a bigger feature set, most notably grade sync.	Yes, Vitalsource is compatible with and can integrate with ClassGather.
c. ClassGather offers customers access to their digital instructional materials through direct integrations with publisher platforms. As a certified integration partner, ClassGather supports roster exchange with publishers via OneRoster (CSV or API) and SSO access via SAML, oAuth, or LTI. Through automated resource assignment, access to digital titles is provisioned at the time of purchase, so student and teacher access "just works" without additional content or integration configuration.	We don't currently integrate with ClassGather.	Yes, Vitalsource is compatible with and can integrate with ClassGather.

# Digital Access & Implementation Guide

# Pearson Reviewers Guide

Mississippi HQIM Adoption

CTE: Healthcare & Human Services – Health Science (Core I)

Health Science Fundamentals: Exploring Career Pathways, ©2024

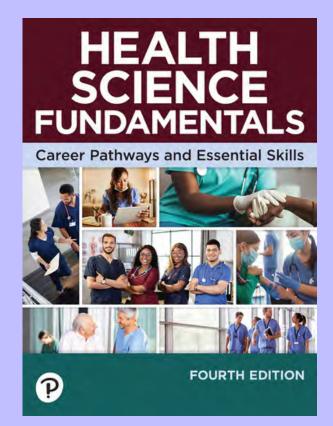
## **Program Description**

Health Science Fundamentals meets the standards for the following YouScience certifications:

- -Essential Healthcare Practices (NCHSE)
- -Foundations of Healthcare Professions (NCHSE)
- -Human Structure Functions A & B (NCHSE)
- -National Health Science Certificate (NCHSE)
- -Health Science Fundamentals

Health Science Fundamentals combines lessons in anatomy and physiology, medical terminology, and clinical skills to develop a competent and productive healthcare workforce.

- Up-to-date content: Includes additional sections on public health and working in teams.
- Visuals: Photos and infographics for graphical understanding.
- **Industry standards:** Aligns with the latest healthcare standards.



#### Review text link:

https://mlm.pearson.com/

#### **Access Credentials:**

Username: msscienceandcte2025

Password: MSA doptions 2025

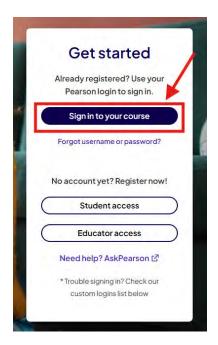
The Pearson Sample Credentials for this title allow multiple users in different locations to review the text and its features at the same time. A single set of demo credentials provides access for all requested digital categories (demo, limited, and full access). If this title is chosen for adoption, Pearson will supply demo access for the entire adoption period.

#### **Access Credentials**

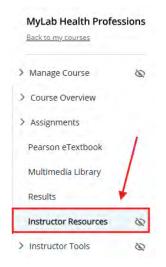
1. Navigate to:

https://mlm.pearson.com/

- 2. Select "Sign in to your course"
  - Enter the credentials:
  - <u>Username:</u> msscienceandcte2025
  - Password: MSAdoptions2025
  - Select "Sign in"

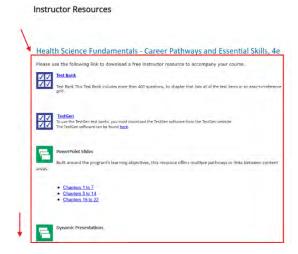






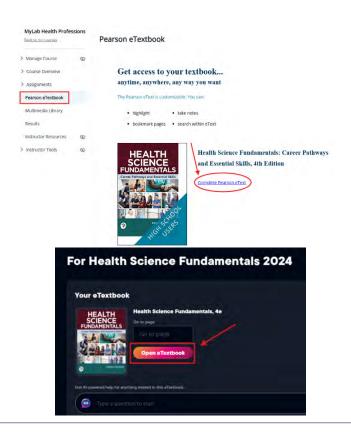
#### 3. Accessing a Course

- Select the course/title desired by hovering over the title and clicking.
- On the Course Home Screen, choose the materials you want to review.
- To review the Instructor Resources, select "Instructor Resources" from the left menu, then explore the various options.
- When selected, individual resources will download/open in a new tab. Be sure to scroll down to see all options.



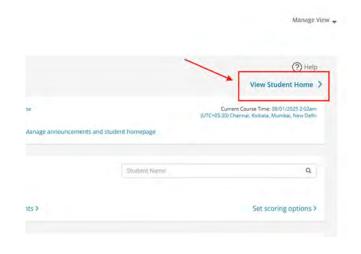
#### 4. Reviewing the etext

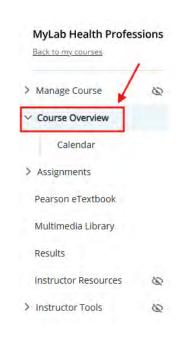
- From the left menu, select "Pearson eTextbook", then "Complete Pearson eTextbook".
- A new tab will open. Select "Open eTextbook."
- In the eTextbook, use the left menu to explore the table of contents, notebook, flashcards, and other features.



#### 5. Reviewing Additional Resources

- From the first tab, use the left menu to expand and explore options under "Course Overview", "Assignments", "Multimedia Library", "Instructor Tools", etc.
- Note: To access the Student view, select "Course Overview" from the left menu, then "View Student Home" from the upper right corner.





#### 6. Guided Platform Walkthrough

 For a guided MyLab walkthrough, including an overview of key features, please visit:

https://www.youtube.com/watch?v
=lg3X7Vu\_wYg&feature=youtu.be





#### 7. Formats available

- Student Edition (HS Hardcover); 9780138082758; Book
  - with MyLab digitally delivered access code; 9780138083168; Book + 1 year digital
  - with six (6) MyLab digitally delivered access codes; 9780138083229; Book + 6 year digital
- MyLab digitally delivered access code; 9780138082819; 1 year digital
- Six (6) MyLab digitally delivered access codes; 9780138267612; 6 year digital
- Student Activity Guide; 9780138082765; Book
- Student Edition with Student Activity Guide; 9780138098735; Book
- Teacher's Wraparound Edition; 9780138082802; Print Teacher's Edition

# Pearson Reviewers Guide

# Mississippi HQIM Adoption

CTE: Healthcare & Human Services - Health Science (Core II)

Anatomy, Physiology, & Disease: An Interactive Journey for Health

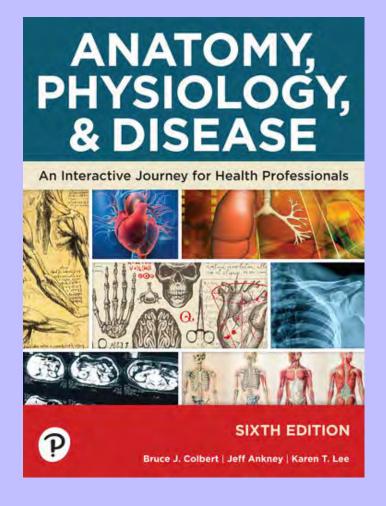
Professionals, ©2024

### **Program Description**

Anatomy, Physiology and Disease meets the standards for medical anatomy and physiology from YouScience.

Anatomy, Physiology, and Disease helps build strong connections to key ideas that help students prepare to be healthcare practitioners.

- Comprehensive learning: Presents the interrelationships between anatomy, physiology, and pathology.
- Practical applications: Clinical applications, common diagnostic tests, pharmacology information, workplace and professionalism skills.
- Current research: All body systems content has been updated to include the most recent research connecting disease states to abnormal changes in anatomy and physiology
- and physiology.
   Enhanced training with MyLab® This interactive online platform is a unique web-based learning resource that provides a range of visual, auditory, and interactive elements to enhance training.



#### Review text link:

https://mlm.pearson.com/

#### **Access Credentials:**

Username: msscienceandcte2025

Password: MSAdoptions2025

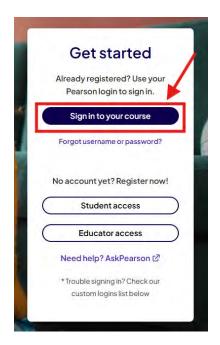
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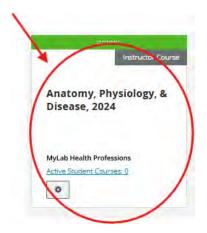
#### **Access Credentials**

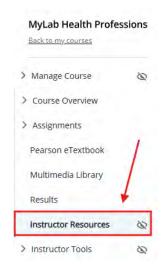
1. Navigate to:

https://mlm.pearson.com/

- 2. Select "Sign in to your course"
  - Enter the credentials:
  - <u>Username:</u> msscienceandcte2025
  - Password: MSAdoptions2025
  - Select "Signin"







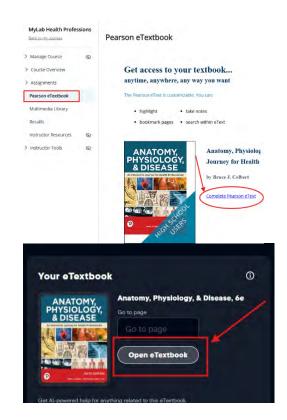
#### 3. Accessing a Course

- Select the course/title desired by hovering over the title and clicking.
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- To review the Instructor Resources, select "Instructor Resources" from the left menu, then explore the various options.
- When selected, individual resources will download/open in a new tab. Be sure to scroll down to see all options.



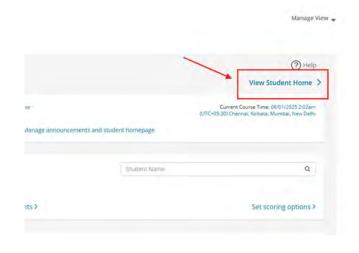
#### 4. Reviewing the etext

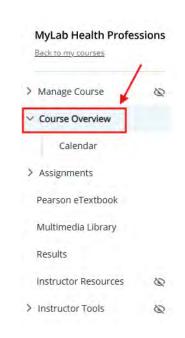
- From the left menu, select "Pearson eTextbook", then "Complete Pearson eTextbook".
- A new tab will open. Select "Open eTextbook."
- In the eTextbook, use the left menu to explore the table of contents, notebook, flashcards, and other features.



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- Note: To access the Student view, select "Course Overview" from the left menu, then "View Student Home" from the upper right corner.





#### 6. Guided Platform Walkthrough

 For a guided MyLab walkthrough, including an overview of key features, please visit:

https://www.youtube.com/watch?v
=lg3X7Vu\_wYg&feature=youtu.be





#### 7. Formats available

- Student Edition (HS Hardcover); 9780138045180; Book
  - with MyLab digitally delivered access code; 9780138046644; Book + 1 year digital
  - with six (6) MyLab digitally delivered access codes; 9780138046651; Book + 6 year digital
- MyLab digitally delivered access code; 9780138045487; 1 year digital
- Six (6) MyLab digitally delivered access codes; 9780138267568; 6 year digital
- Student Activity Guide; 9780138045210; Book
- Student Edition with Student Activity Guide; 9780138098797; Book
- Teacher's Wraparound Edition; 9780138045289; Print Teacher's Edition

# Pearson Reviewer Guide

Mississippi HQIM Adoption

CTE: Healthcare & Human Services – Healthcare & Clinical Services (Healthcare & Clinical Services II)

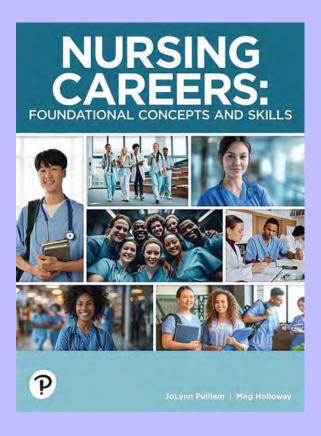
Nursing Careers: Foundational Concepts and Skills ©2026

Mississippi Reviewers Guide ©Pearson Education, Inc.

## **Program Description**

Nursing Careers: Foundational Concepts and Skills, 1st edition, prepares for entry level careers in Nursing, through essential healthcare concepts and practical clinical skills.

- **Key concepts:** Includes the history of nursing and a nurse's role in society.
- Practical application: Focuses on patient safety, basic clinical skills, patient comfort, and specialty areas of care.



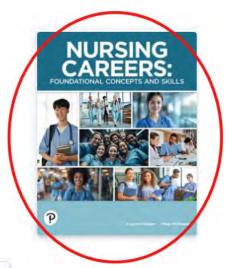
#### **Digital Sample Access:**

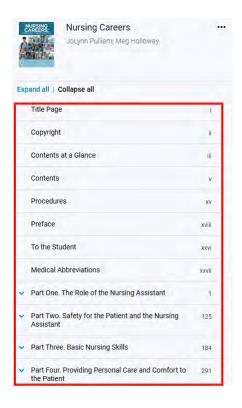
https://vstgo.co/r/y6go

The Pearson Sample Link for this title requires no credentials. Multiple users in multiple locations can review this text and its features simultaneously. As such, this singular link represents all categories of digital access requested (demo, limited, and full access). This link will expire on 7/28/26. If this title is selected for adoption, Pearson will provide demo access for the full adoption period.

- 1. Accessing the Course & Instructor Resources
  - Navigate to: <a href="https://vstgo.co/r/y6go">https://vstgo.co/r/y6go</a> (There are no log-in credentials.)
  - Once you have agreed to the "Terms of Use" (if applicable), hover over the thumbnail for your title.
  - Select "Open Book" or simply click on the cover.







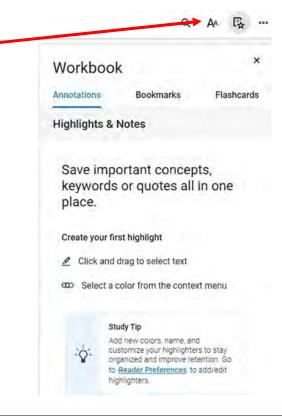
#### 2. Reviewing the eText

- Using the left-hand menu, select resources to review, such as:
  - Chapters
  - o Sections
  - Appendices
  - Glossary



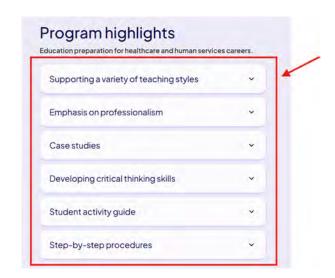
#### 3. Reviewing the Workbook

- To open the Workbook, select the document/stariconin the top right corner.
- Browse the Workbook, including Annotations, Bookmarks, and Flashcards.



#### 4. Reviewing Additional Features

- Select the 3 dots in the upper right corner to see more options, including the "Read Aloud" feature.
- For further information on key features of this title, please visit our website: <a href="https://www.pearson.com/en-us/schools/subject-catalog/p/nursing-careers-foundational-concepts-and-skills/P200000014102">https://www.pearson.com/en-us/schools/subject-catalog/p/nursing-careers-foundational-concepts-and-skills/P200000014102</a>.





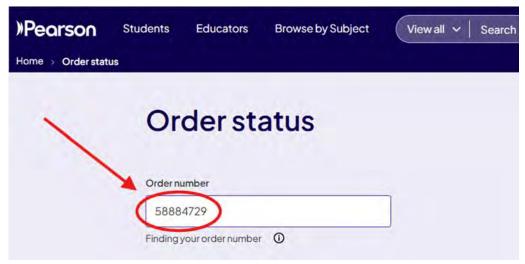
# **Presentation Video**

**CTE: Healthcare & Human Services** 

https://youtu.be/uHiPK9aBQ9I

# **Physical Sample Information**

Pearson has provided physical samples of the textbooks in this section (pupil edition and teacher edition, if printed teacher edition is available). The Pearson order number for the shipment is: **58884729**. Details and tracking numbers can be found on our <u>Order Status Page</u> after entering the order number.



**Pearson Order Status Page**