

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine
Safety Applications in the Healthcare Classroom/Laboratory/Clinics - HS-IHS-2: Students will maintain a safe work environment and prevent accidents by using safety precautions and/or practices including adherence to hazardous labeling requirements and compliance with safety signs, symbols, and labels.																									
a. Analyze the role and the responsibilities of the healthcare provider (student) in the classroom, laboratory, and various workplace settings in an emergency situation.	✓			X	X					X							X				X	X		X	X
b. Demonstrate disaster preparedness procedures for each emergency situation – fire prevention and the emergency evacuation plan, inclement weather, sniper attack, student (patient) out-of-control, bioterrorism, and bomb threat.	✓									X												X			
c. Compare and contrast common emergency codes used in workplace settings to notify staff of impending emergency procedures (Code 99, Dr. Twister, etc.) and acknowledge that these codes may vary in each setting.																									
d. Demonstrate and incorporate proper use of ergonomics and correct body mechanics in the classroom, laboratory, and workplace.	✓						X				X							X						X	
e. Construct a healthcare delivery system model with a simulated organizational chart diagramming the interdependence of healthcare professions within the system.	✓			X																	X				

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
f. Analyze the economic impact of healthcare delivery and calculation of health insurance plans to include deductibles, co-pays, PPOs and HMOs.	✓			X																X							
g. Analyze each of the following healthcare pathways: therapeutic, diagnostic, health informatics, environmental support, and biotechnology research and development.	✓			X					X				X	X			X	X	X		X	X		X	X		
h. Identify the credentialing processes necessary for health care careers to include licensure, certification, and registration.	✓			X	X	X						X	X			X	X		X		X			X			
Academic standards:																											
SCSh2 – Students will use standard safety practices for all classroom laboratory and workplace investigations.	✓							X						X	X	X	X	X	X		X	X		X	X		
SAP1 – Students will analyze anatomical structures in relationship to their physiological functions	✓	X											X	X	X	X	X	X	X		X	X		X	X		

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
Healthcare Delivery Systems - HS-IHS-3: The student will analyze healthcare delivery system models and the role of health professionals within each given model.																										
a. Explain systems theory.	✓			X																						
b. Research the history of healthcare delivery systems development including evaluating the impact of enhanced technology and other factors that may affect various healthcare delivery systems	✓		X	X	X																X		X			
c. Analyze current trends in delivery systems.	✓			X							X															
d. Define, compare and contrast services performed in healthcare delivery systems to ensure the delivery of quality healthcare.	✓			X					X				X										X			
e. Construct a healthcare delivery system model with a simulated organizational chart diagramming the interdependence of healthcare professions within the system.	✓			X																						
f. Analyze the economic impact of healthcare delivery and calculation of health insurance plans to include deductibles, co-pays, PPOs and HMOs.	✓			X																	X					

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
g. Analyze each of the following healthcare pathways: therapeutic, diagnostic, health informatics, environmental support, and biotechnology research and development.	✓												X	X			X	X	X		X	X		X	X		
h. Identify the credentialing processes necessary for health care careers to include licensure, certification, and registration.	✓				X	X						X		X			X	X	X		X	X			X		
Academic standards:																											
ELA11W3 – The student uses research and technology to support writing.	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SSEF4 - The student will compare and contrast different economic systems, and explain how they answer the three basic economic questions of what to produce, how to produce and for whom to produce.	✓			X																							
MM2P1-Students will solve problems (using appropriate technology)	✓	X	X	X	X	X							X	X	X			X		X	X	X	X		X		
MM2P4- Students will make connections among mathematical ideas and to other disciplines.	✓	X		X										X	X			X		X	X	X	X		X		

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
SSEF2- The student will give examples of how rational decision making entails comparing the marginal benefits and the marginal costs of an action)	✓			X																							
SSEPF5- The student will describe how insurance and other risk-management strategies protect against financial loss.	✓			X	X	X																					
Teamwork and Leadership - HS-IHS-4: The student will describe the attributes of effective teamwork and leadership.																											
a. Define leadership and state the qualities of a leader.	✓								X																		
b. Describe Career and Technical Student Organizations, their importance in leadership development and identify benefits of belonging to Health Occupations Students of America (HOSA).	✓												X	X			X	X	X		X	X		X	X		
c. Analyze different types of teams, identify team members and discuss their roles and responsibilities.	✓				X			X						X			X	X				X			X		
Introduction to Healthcare Communications - HS-IHS-5: The student will communicate effectively orally and in writing, applying academic knowledge in healthcare science communications.																											
a. Differentiate between verbal and non-verbal communication and evaluate the components and barriers to effective communication.	✓	X									X										X						

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways																
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine		
b. Organizes and develops ideas into accurate verbal reports and record appropriate data.	✓	X	X	X	X	X	X		X							X	X	X		X				X			X	
c. Calculate health related math problems.	✓	X		X											X	X		X		X	X	X	X			X		
d. Adapt communication to the needs of the individual in a responsive rather than reactive manner.	✓		X						X		X	X		X						X	X	X						
e. Demonstrate and differentiate between appropriate and inappropriate use of telecommunications technology (cell phone, e-mail, and other forms of internal organization communications).	✓						X				X		X							X		X						
Academic standards:																												
ELA9RC2- The student participates in discussions related to curricular learning in all subject areas.	✓	X	X	X	X	X	X	X	X					X	X		X	X				X			X	X		
ELA9LSV1 – The student participates in student-to-teacher, student-to-student, and group verbal interactions.	✓	X	X	X	X	X	X	X	X					X	X		X	X	X		X	X	X	X	X	X		
MM2P1 – Students will solve problems (using appropriate technology).	✓	X	X	X	X	X			X							X	X	X		X		X	X	X	X		X	

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations											Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
MM2P3d –Use the language of mathematics to express mathematical ideas precisely.	✓	X		X											X			X		X	X	X	X		X		
MM2P4 – Students will make connections among mathematical ideas and to other disciplines	✓	X		X										X	X			X		X	X	X	X		X		
SCSh6 – Students will communicate scientific investigations and information clearly.	✓	X	X	X	X	X							X	X				X					X	X	X		
Cultural Diversity - HS-IHS-6: Demonstrate knowledge and understanding of diverse social, religious, ethnic, and cultural communities.																											
a. Identify and demonstrate respect for cultural, socioeconomic, and ethnic diversity.	✓		X	X									X														
b. Evaluate cultural difference (i.e. culturally acceptable gestures, terms, and common folk medicine practices indigenous to certain regions) and their impact on healthcare delivery.	✓		X	X																							
Introduction to Life Changes – The Process of Change HS-IHS-7: The student will compare and contrast the life changes from conception throughout the lifespan as it relates to growth and developmental needs.																											
a. Investigate the interdependence of the various body systems to each other and to the body as a whole.	✓	X								X		X	X	X	X		X	X	X		X	X		X	X		

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations											Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
b. Explain the role of homeostasis and its mechanisms as these relate to the body as a whole and predict the consequences of the failure to maintain homeostasis.	✓	X							X					X											X		
c. Describe how structure and function are related in terms of cell and tissue types.	✓	X											X	X				X	X		X	X		X	X		
d. Describe the stages of growth and development from conception throughout the lifespan including correlations to Maslow's Hierarchy of Needs.																											
e. Examine various conditions that change normal body functions – i.e. tissue rejection, allergies, injury, diseases and disorders - and how the body responds.	✓	X								X			X	X			X	X	X		X	X		X			
f. Describe effects of aging on all body systems.	✓	X							X				X	X			X	X			X				X		
Academic standards:																											
SAP5e – Describe effects of aging on all body systems.	✓	X												X	X			X	X		X					X	
SAP4e- Examine various conditions that change normal body functions (e.g. tissue rejection, allergies, injury, diseases and disorders) and how the body responds.	✓	X								X			X	X	X		X	X	X		X	X		X	X		

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
SAP5d – Describe the stages of development from birth to adulthood –i.e. neonatal period, infancy, childhood, adolescence and puberty, and maturity.																											
Ethical Responsibilities - HS-IHS-8: The student will demonstrate integration of accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare classroom and all clinical environments utilized.																											
a. Differentiate between moral, ethical, and legal issues impacting healthcare and the relationship of each to healthcare outcomes.	✓				X	X					X	X														X	
b. Contrast personal, professional, and organizational ethics.	✓					X						X															
c. Differentiate between federal and state regulations/laws of healthcare and discuss Professional Standards of Care.	✓				X	X						X								X							

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
<p>Legal Responsibilities - HS-IHS-9: The student will explain the legal responsibilities, limitations, and implications of their actions within the healthcare delivery setting. They will perform their duties according to regulations, policies, laws and legislated rights of clients.</p>																										
a. Analyze the basic legal responsibilities of healthcare workers in regards to torts, malpractice, negligence, invasion of privacy, privileged communication, patient/client confidentiality, doctrine of informed consent including identification of HIPAA regulations and the impact on healthcare communications.	✓			X	X						X						X		X		X					
b. Discuss legal contracts and how they affect healthcare delivery including but not limited to: advance directives, living wills, durable power of attorney, and other legal directives regarding medical treatment.	✓				X																					
c. Examine the American Hospital Association’s “Patients Bill of Rights;” the Omnibus Budget Reconciliation Act (OBRA); the Patient Self – Determination Act, National Patient Safety Goals, and Joint Commission on Accreditation of Health Organizations (JCAHO).	✓				X																					
d. Define and differentiate between policies and procedures; comply with the institutional policies and procedures.	✓				X						X		X			X		X				X				
e. Define and determine a reportable variance (incident) and follow established Risk Management protocol.	✓				X																	X				

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
f. Describe standards for accessing, reporting and documenting client health information (PHI).	✓		X			X					X			X									X				
Health Maintenance Practices - HS-IHS-10: The student will practice preventive health behaviors personally and professional with clients.																											
a. Distinguish between health and wellness and behaviors that promote each.	✓							X																		X	
b. Explain the fundamentals of wellness and the prevention of disease processes.	✓	X							X			X									X	X			X		
c. Define OSHA, CDC, Clinical Laboratory Improvements Amendments (CLIA) and explain each agency's role in healthcare practice.	✓					X																X		X			
d. Compare and contrast the different types of immunity.	✓					X						X	X												X		
Concepts of Microbiology - HS-IHS-11: The student will utilize the principles of infection control.																											
a. Evaluate the need for asepsis in the health environment.	✓						X							X	X	X	X	X	X		X	X		X	X		

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine
b. Differentiate between cleaning, disinfecting, and sterilizing.	✓						X									X			X		X	X		X	
c. Analyze ways microorganisms are spread using the chain of infection model and analyze methods to destroy or control the spread of pathogenic microorganisms.	✓												X					X			X	X			X
d. Identify risk factors associated with nosocomial infections and evaluate their impact on client and employee health.	✓												X								X	X			X
e. Define, demonstrate, and use standard precautions as described in the rules and regulations set forth by the Occupational Safety and Health Administration (OSHA).	✓					X	X							X			X	X			X	X		X	X
f. Demonstrate medical aseptic technique included but not limited to: medical aseptic handwash, cleaning, disinfecting, (non-sterile) gloving and de-gloving.	✓						X								X	X	X	X	X		X	X		X	X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
Academic standards:																										
SCSh2 -Students will use standard safety practices for all classroom, laboratory, and field investigations.	✓							X							X	X	X	X	X	X		X	X		X	X
Introduction to Medical and Technology Terminology and Abbreviations - HS-IHS-12: The student will utilize the elements of medical terminology to communicate information, data and observations.																										
a. Interpret basic medical abbreviations selected from JCAHO's recommended abbreviations list.	✓		X												X				X		X		X	X		X
b. Analyze and define medical terms utilizing common medical prefixes, suffixes, and word roots.	✓		X												X	X			X				X			X
c. Utilize medical terminology within a scope of practice in order to interpret, transcribe, and communicate information, data and observations.	✓	X	X	X		X								X	X	X	X	X	X		X		X	X	X	X
Academic standards:																										
ELA9RL5 – The student understands and acquires new vocabulary and uses it correctly in reading and writing.	✓	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
Introduction to Community Safety - HS-IHS-13: The student will demonstrate basic life support techniques on an adult victim while utilizing personal protective equipment devices and adhering to all standard precautions within OSHA guidelines. This may be simulated for demonstration purposes as necessary.																										
a. Analyze the role of the respiratory and circulatory systems as it pertains to basic life support.	✓	X									X			X			X	X				X		X	X	
b. Perform the following: location of pulse sites, clearing and opening of obstructed airway (conscious and unconscious), rescue breathing, cardiopulmonary resuscitation, and recovery position.	✓	X									X			X			X							X	X	
c. Successfully complete American Red Cross (ARC) and/or American Heart Association's (AHA) Adult basic life Support for Healthcare Providers Training.	✓										X			X			X									
d. Apply AED and follow directions based on the scenario for an adult victim.	✓										X						X									
CTAE Foundation Skills																										
CTAE-FS-1 Technical Skills: Learners achieve technical content skills necessary to pursue the full range of careers for all pathways in the program concentration.	✓	X	X	X	X	X					X		X	X	X	X	X	X	X	X	X	X	X	X	X	X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations											Health Science Career Pathways																		
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine					
CTAE-FS-2 Academic Foundations: Learners achieve state academic standards at or above grade level.	✓	X	X	X	X	X					X	X	X		X	X				X	X	X		X	X		X	X		X	X
CTAE-FS-3 Communications: Learners use various communication skills in expressing and interpreting information.	✓	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CTAE-FS-4 Problem Solving and Critical Thinking: Learners define and solve problems, and use problem-solving and improvement methods and tools.	✓	X	X	X	X	X	X	X	X						X	X			X	X	X	X	X	X	X	X	X	X	X		
CTAE-FS-5 Information Technology Applications: Learners use multiple information technology devices to access, organize, process, transmit, and communicate information.	✓	X	X	X	X	X						X		X	X				X		X		X				X				
CTAE-FS-6 Systems: Learners understand a variety of organizational structures and functions.	✓		X	X		X						X																			
CTAE-FS-7 Safety, Health and Environment: Learners employ safety, health and environmental management systems in corporations and comprehend their importance to organizational performance and regulatory compliance.	✓			X		X		X			X		X		X	X	X		X		X				X						
CTAE-FS-8 Leadership and Teamwork: Learners apply leadership and teamwork skills in collaborating with others to accomplish organizational goals and objectives.	✓		X		X	X			X				X			X	X	X			X			X							

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
CTAE-FS-9 Ethics and Legal Responsibilities: Learners commit to work ethics, behavior, and legal responsibilities in the workplace	✓				X	X	X					X		X	X	X			X		X		X		X	X
CTAE-FS-10 Career Development: Learners plan and manage academic-career plans and employment relations.	✓				X								X	X	X	X	X	X	X	X	X	X	X	X	X	X
CTAE-FS-11 Entrepreneurship: Learners demonstrate understanding of concepts, processes, and behaviors associated with successful entrepreneurial performance.	✓				X	X						X		X	X			X	X	X		X	X		X	X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine
HS-ATS-2: The student will engage in self-assessment, develop a detailed career plan, initiate portfolio development, and recognize the need for continuous self-assessment and goals modification in order to encourage personal and professional growth in the process of life-long learning.																									
a. Plan and evaluate a career choice within the therapeutic pathway; explain the educational/credentialing requirements; and identify various employment opportunities and career growth potential.	✓				X								X	X	X			X		X		X	X	X	X
b. Differentiate between a job and a career; professional networking and professional development and a job application and a resume.	✓										X			X				X				X			X
c. Explore entrepreneurial opportunities within the therapeutic pathway.	✓				X								X				X		X		X	X		X	X
d. Develop career portfolio including detailed career plan.	✓				X									X				X				X			X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
<p>Leadership and Intra-team Communication HS-ATS-3: The student will demonstrate the roles and responsibilities of individual members as part of the healthcare team and/or Career and Technical Student Organization (CTSO), including their ability to promote the delivery of quality healthcare. They will interact effectively and sensitively with all members of the healthcare team and/or CTSO</p>																										
a. Respond appropriately to a variety of situations as a designated member of a team.	✓	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X		X	X		X	
b. Communicate verbally and non-verbally with team colleagues to assure a best result for the client.	✓	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X		X		X	X		X
c. Demonstrate team responsibility by completing assigned tasks in a timely and effective manner.	✓	X	X	X	X	X	X	X	X				X		X	X	X	X	X		X	X	X	X		X
d. Exhibit strong sense of team identity and commitment to purpose.	✓	X	X	X	X	X			X						X			X	X				X			X
e. Relate classroom, lab, and community activities to aspects of a Career and Technical Student Organization's purpose, guiding principles, and leadership skills within the organization.	✓		X		X										X	X	X	X	X		X		X	X		X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
f. Compares and contrasts leadership/management styles and the appropriate style for a given situation.	✓		X						X																		
g. Demonstrates an understanding of the nature of employer-employee relationships.	✓				X	X			X					X				X		X		X			X		
h. Exhibits leadership skills (i.e., negotiation skills, initiative, positive reinforcements, recognition of others' efforts, problem solving skills, conflict resolution).	✓	X	X	X	X	X			X		X												X				
i. Explains the importance of delegation.	✓	X	X	X	X	X																X					
Academic standards:																											
ELA10W1(a) Establishes a clear, distinctive perspective and maintains a consistent tone and focus throughout.	✓	X	X	X	X	X							X			X	X				X		X	X			
ELA10LSV1 The student participates in student-to-teacher, student-to-student, and group verbal interactions.	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
ELA10LSV2(a) Assesses the way language and delivery affect the mood and tone of the oral communication and audience.	✓		X								X									X							
Safety Practices and Infection Control - HS-ATS-4: The student will demonstrate the proper implementation of safe work practices to prevent injury or illness as designated by each class, laboratory, clinical site, and/or facility's safety protocol.																											
a. Analyze existing and potential exposure risks to clients, co-workers, and self in healthcare setting.	✓						X			X		X	X		X			X	X	X	X	X				X	
b. Demonstrate adherence to standards, and guidelines for Center for Disease Control and Prevention (CDC), Occupational Safety and Health Administration (OSHA), Federal Drug Administration (FDA), Clinical Laboratory Improvement Amendments (CLIA), and Department of Technical and Adult Education (DTAE), and other applicable regulatory agencies' guidelines	✓					X	X		X	X	X	X					X	X	X		X	X			X	X	
c. Contrast surgical technique and medically aseptic technique.	✓															X		X		X	X			X	X		

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
Client Interaction-Progressive Communication Techniques - HS-ATS-5: The student will demonstrate accurate and grammatically correct communications, both oral and written, utilizing medical terminology and other nomenclature appropriate to environment.																										
a. Evaluate the client's ability to understand and adapt communications to the client's level of comprehension applying an empathetic attitude, active listening skills, and additional specific techniques for persons with special needs to include the hearing and vision impaired.	✓	X				X				X	X					X			X	X				X		
b. Utilize multiple methods of presenting information including client teaching, orientation techniques, and effective oral presentations.	✓	X							X	X		X										X		X		
Information Technology Applications - HS-ATS-6: The student will analyze appropriate information technology tool(s) for information collection and their regulatory guidelines for collecting data and maintaining client health care records.																										
a. Analyze the Health Insurance Portability and Accountability Act (HIPAA).	✓				X	X				X																
b. Evaluate the Health Insurance Portability and Accountability Act's (HIPAA) impact on information technology applications.	✓				X					X																

<p>PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science</p>	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
<p>Treatment Plans -Problem Solving and Critical Thinking - HS-ATS-7: The student will analyze the general purpose of a treatment plan.</p>																									
a. Discuss the development of a treatment plan.	✓	X							X	X		X	X									X		X	X
b. Evaluate the components of a treatment plan and their importance in identifying client health care needs, strengths and problems, and reporting results .	✓	X	X						X	X		X	X									X		X	X
<p>Applied Anatomy, Physiology, and Fundamental Pathophysiology of the Body's Systems - HS-ATS-8: The student will analyze the anatomy, physiology and basic pathophysiology of each of the body's systems and apply knowledge in performance of evaluating, monitoring, and treatment of client(s) and/or simulations.</p>																									
a. Analyze anatomical structures in relationship to their physiological functions.	✓	X										X	X	X	X	X	X	X	X		X	X		X	X
b. Analyze the interdependence of the integumentary, skeletal, and muscular systems as these relate to the protection, support and movement of the human body.	✓	X										X						X	X		X			X	X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
c. Assess the integration and coordination of body functions and their dependence on the endocrine and nervous systems to regulate physiological activities.	✓	X										X									X			X	X		
d. Analyze the interdependence of the body's systems as related to wellness, disease, and disorders.	✓	X							X				X	X			X		X		X	X	X	X	X		
e. Discuss the goals of therapy and care rehabilitation.	✓											X	X								X			X			
f. Discuss the etiology of two common diseases in each body system and how to treat and/or prevent them.	✓	X							X	X			X	X					X		X	X		X	X		
Academic standards :																											
SAP1 Students will analyze anatomical structures in relationship to their physiological functions.	✓	X										X		X	X	X	X	X	X		X	X		X	X		
SAP2 Students will analyze the interdependence of the integumentary, skeletal, and muscular systems as these relate to the protection, support and movement of the human body.	✓	X										X						X	X		X			X	X		
SAP3 Students will assess the integration and coordination of body functions and their dependence on the endocrine and nervous systems to regulate physiological activities.	✓	X										X									X			X	X		

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine
SAP4 Students will analyze the physical, chemical, and biological properties of process systems as these relate to transportation, absorption and excretion, including the cardiovascular, respiratory, digestive, excretory and immune systems.	✓	X							X					X			X	X	X			X		X	X
Monitoring and Evaluating Client/Patient Status - HS-ATS-9: The student will demonstrate the process for basic assessment (i.e. vital signs, height, weight, etc...), monitoring, reporting/recording patient/client's health status.																									
a. Consistently perform all "beginning and ending" procedures utilized in a clinical setting (i.e. wash your hands, gather equipment, provide for privacy, etc...)	✓													X			X	X	X			X		X	X
b. Evaluate factors that may affect temperature, pulse, respirations, blood pressure, height, and weight including normal and abnormal values.	✓	X							X	X				X			X							X	
c. Demonstrate the ability to utilize and accurately read manual and electronic equipment to measure vital signs, height and weight using aseptic technique as well as use other assessment instruments and equipment according to manufacturer's guidelines and accepted safety practices.	✓	X	X							X				X			X	X							X
d. Accurately use manual and electronic equipment to measure vital signs, height and weight.	✓	X	X							X				X											X
e. Report and record temperature, pulse, respirations, blood pressure, height and weight manually on graphic/flow sheets and/or electronically on mobile charts (when available) within designated time frame.	✓	X	X											X								X			X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
f. Apply mathematical concepts and perform mathematical calculations appropriate to clinical expectations and/or work-based learning site.	✓	X														X			X		X	X	X	X		X	
Academic standards:																											
MM2P4 Students will make connections among mathematical ideas and to other disciplines	✓	X		X												X			X		X		X	X		X	
ELA10LSV1 The student participates in student-to-teacher, student-to-student, and group verbal interactions.	✓	X	X	X	X									X	X	X	X	X	X	X	X	X	X	X	X	X	X
Community First Aid - HS-ATS-10: The student will demonstrate the performance of first aid procedures meeting and/or exceeding all standards of the American Red Cross (ARC) and/or American Heart Association's (AHA) utilizing personal protection devices and equipment in compliance with all OSHA regulatory guidelines. Simulations may be used when necessary.																											
a. Demonstrate the assessment of a victim requiring first aid, identification of the signs and symptoms, and how to locate the victim's injuries.	✓	X									X							X							X	X	

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
b. Demonstrate the ability to adapt resources at the scene of injury for the provision of first aid techniques as necessary.	✓										X							X									X
c. Perform basic triage techniques for emergency situations involving multiple victims.	✓																	X									X
d. Successfully complete the American Red Cross (ARC) and/or American Heart Association's (AHA) First Aid Training.	✓									X			X				X								X		
Basic Life Support Techniques Infants and Children - HS – ATS – 11: The student will demonstrate basic life support techniques for both infants and children while utilizing personal protective equipment devices and adhering to all standard precautions within OSHA guidelines. Simulations may be used for demonstration purposes as necessary.																											
a. Contrast infant and child risk factors for choking, respiratory, and cardiac distress.	✓	X												X			X										
b. Apply automatic external defibrillator and follow directions based on scenario for a child.	✓																X										
c. The student will successfully complete AHA or ARC Basic Life Support training for infants and children.	✓													X			X										

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine		
CTAE Foundation Skills																											
CTAE-FS-1 Technical Skills: Learners achieve technical content skills necessary to pursue the full range of careers for all pathways in the program concentration.	✓	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CTAE-FS-2 Academic Foundations: Learners achieve state academic standards at or above grade level.	✓	X	X	X	X	X				X			X	X			X	X	X		X	X		X	X		X
CTAE-FS-3 Communications: Learners use various communication skills in expressing and interpreting information.	✓	X	X	X	X	X					X	X	X	X	X		X	X	X	X	X	X	X		X	X	
CTAE-FS-4 Problem Solving and Critical Thinking: Learners define and solve problems, and use problem-solving and improvement methods and tools.	✓	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CTAE-FS-5 Information Technology Applications: Learners use multiple information technology devices to access, organize, process, transmit, and communicate information.	✓	X	X	X	X	X					X	X	X					X		X		X			X		
CTAE-FS-6 Systems: Learners understand a variety of organizational structures and functions.	✓		X	X		X																	X				

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Applications of Therapeutic Services PRE-REQUISITE: Introduction to Healthcare Science	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
CTAE-FS-7 Safety, Health and Environment: Learners employ safety, health and environmental management systems in corporations and comprehend their importance to organizational performance and regulatory compliance.	✓			X	X		X		X	X		X			X	X	X		X	X	X	X		X	
CTAE-FS-8 Leadership and Teamwork: Learners apply leadership and teamwork skills in collaborating with others to accomplish organizational goals and objectives.	✓	X	X	X	X	X		X				X		X	X	X	X	X		X		X	X		X
CTAE-FS-9 Ethics and Legal Responsibilities: Learners commit to work ethics, behavior, and legal responsibilities in the workplace	✓				X	X	X						X	X	X			X		X	X	X		X	X
CTAE-FS-10 Career Development: Learners plan and manage academic-career plans and employment relations.	✓				X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X
CTAE-FS-11 Entrepreneurship: Learners demonstrate understanding of concepts, processes, and behaviors associated with successful entrepreneurial performance.	✓				X	X							X	X			X	X	X		X	X		X	X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
Academic Foundations - HS-NE-1: The student will apply the academic subject matter required for proficiency as a nursing assistant.																									
a. Apply the philosophy of restorative/rehabilitative care when meeting needs.	✓								X										X						X
b. Apply knowledge of human growth and development for the elderly.	✓	X		X					X												X				
c. Describes the physical, social, and emotional changes that occur in the elderly and chronically ill.	✓	X		X								X				X									
d. Respect and advocate the resident/patient/client rights.	✓					X	X					X				X		X	X	X				X	
e. Describe the special needs of residents of patients with disabilities, including physical limitations, mental and emotional conditions, as well as dementias.	✓		X									X												X	

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
Academic Standard:																										
SAP5 (e) Describes the effect of aging on all body systems.	✓	X		X										X				X		X						
Employability Skills - HS-NE-2: The student will apply the employability skills required for proficiency as a nursing assistant.																										
a. Assess self accurately, set personal goals, monitor progress, and exhibit self control.	✓			X	X												X		X						X	
b. Demonstrate adaptability, dependability, and responsibility and such social behaviors as tolerance, honesty, empathy, and courtesy.	✓		X		X		X		X			X				X			X	X						
c. Perform effectively in various environments with people of different ages, genders, cultures, socioeconomic backgrounds, attitudes, and abilities.	✓		X		X		X		X			X						X		X						
d. Work to satisfy customer/client expectations.	✓		X		X							X		X	X				X				X			
e. Demonstrate understanding of the individual's role, responsibilities, and relationships in the organizational structure of a business.	✓			X	X	X			X					X	X				X				X			

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
f. Demonstrate understanding of the relationship between educational achievement and career planning and how career choices impact family patterns and lifestyle.	✓			X								X				X		X		X			X		
g. Demonstrate effective skills for seeking and securing employment.	✓			X								X				X		X		X					
h. Demonstrate understanding of education and career development (Nursing Assistant to Licensed Practical Nurse to Registered Nurse, etc.) as a lifelong learning process that requires preparation for change.	✓		X	X									X				X	X		X	X			X	
Resident/Patient/Client Rights - HS-NE-3: The student will demonstrate behavior which maintains residents'/patients' rights. Practice resident/patient/client privacy according to OBRA and HIPAA guidelines.																									
a. Provide privacy and maintain confidentiality.	✓				X	X								X					X	X					
b. Promote the resident's/patients/client's right to make personal choices to accommodate their needs.	✓				X	X										X			X						
c. Give assistance in resolving grievances and disputes including the use of Ombudsman.	✓	X																							
d. Provide needed assistance getting to and participating in resident/patient/client and family groups and activities.																									

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
e. Maintain care and security of residents'/patients'/clients' personal possessions according to facility's policy and procedure.	✓					X													X		X				X		
f. Provide care, which maintains the resident/patient/client right to freedom from abuse, mistreatment and neglect.	✓					X											X				X				X		
g. Avoid the need for restraints in accordance with current professional standards and discuss alternative options.																											
Academic Standard:																											
ELA10W1 (d) Uses precise language, action verbs, sensory details, appropriate modifiers, and active rather than passive voice.	✓	X	X	X	X	X								X	X	X			X	X	X	X	X	X		X	X
Communications - HS-NE-4: The student will communicate effectively with residents/patients/clients, healthcare team members and resident/ patient/client family or visitors using appropriate customer service skills.																											
a. Demonstrate basic use of correct medical terminology and acronyms according to regulating agencies.	✓	X	X	X	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X
b. Demonstrates use of communication devices.	✓	X	X	X	X	X								X	X	X			X	X		X	X	X			X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
c. Demonstrates the use of the senses to make appropriate observations; record and report pertinent observations related to resident/patient/client procedures and condition. (Note: incorrectly labeled "b" in georgiastandards.org document) Following labels are incorrect also.	✓		X									X		X	X	X	X		X	X	X	X	X		X
d. Records and reports nursing assistant care procedures correctly.	✓		X											X							X				X
e. Demonstrate appropriate techniques for communicating with residents/patients/clients that have sensory impairments.	✓		X																						
f. Use formal and informal, written and oral communications skills when planning and providing care.	✓	X	X	X	X	X						X	X							X	X	X			
g. Treat the resident's/patients/client's family and friends courteously.	✓		X				X												X						
h. Describe methods for communicating with residents with cognitive impairments.	✓		X																						

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
Academic standards:																										
ELA11C1 (a) Demonstrates an understanding of proper English usage and control of grammar, sentence and paragraph structure, diction, and syntax..	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELA11LSV2(c) Responds to questions with appropriate information.	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELA11LSV (g) Gives reasons in support of opinions expressed.	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mental Health and Social Service Needs - HS-NE-5: The student will demonstrate appropriate behaviors meeting mental health and social service needs of resident/patient/client.																										
a. Define mental health and explain the interrelatedness of physical and mental health.	✓																	X							X	
b. Identify the signs and symptoms of maladaptive behavior (delirium, confusion, and disorientation) that should be documented and reported.	✓		X						X								X									
c. Demonstrate nursing assistant actions in providing care for residents/patients/clients with adaptive and maladaptive reactions.																										

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
Systems - HS-NE-6: The student will analyze the organizational structure of the nursing facility.																										
a. Differentiate between long-term care and other healthcare agencies.	✓																									X
b. Examine the administrated structure for healthcare agencies.	✓			X																						
c. Compare and contrast the relationship between various governmental and private agencies that define the guidelines for resident/patient/client quality care.	✓			X	X											X		X				X				
d. Follow institutional policies and procedures when providing care.	✓			X	X	X										X		X				X				
Legal/Ethical Responsibility - HS-NE-7: The student will apply the legal and ethical principles of providing care and fulfilling job responsibilities for competent and incompetent residents/patients/clients.																										
a. Demonstrate responsible actions supporting resident/patient/client rights.	✓					X	X						X		X					X	X					
b. Provide resident/patient/client privacy as indicated.	✓		X				X						X		X				X	X	X					

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
c. Practice confidentiality according to the Health Insurance Portability and Accountability Act (HIPAA) and Omnibus Budget Reconciliation Act (OBRA) guidelines.	✓		X			X	X					X							X		X						
d. Describe elder/adult abuse, misappropriation of property, and resident/patient/client neglect.	✓		X																								
e. Compare and contrast the practices that would promote legal responsibility and the consequences of failure to apply legal responsibilities.	✓					X												X		X							
f. Explain how to care for dying residents/patients/clients and family members.	✓		X														X										
g. Describe the training requirements and the scope of practice for the nursing assistant.	✓					X										X											
Safety Practices - HS-NE-8: The student will practice safety measures in providing resident/patient/client care.																											
a. Describe the nursing assistant's disaster preparedness role in the healthcare setting.	✓																X										
b. Identify ways to promote safety and handling of non-medical emergencies.	✓		X					X		X				X		X		X						X			

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
c. Maintain a safe environment for the resident/patient/client.	✓						X	X										X		X	X					
d. Employ correct body mechanics.	✓							X				X			X		X		X						X	
e. Follow emergency procedures for fire and other types of disasters.	✓							X									X									
f. Demonstrate how to recognize and respond to medical emergencies including the Heimlich Maneuver for clearing foreign body airway obstructions for both the conscious and unconscious victims.	✓																X							X	X	
g. Perform proper procedures for positioning and transferring residents/patients/clients.	✓																X		X							X
h. Communicate to the client the location and function of staff/emergency contact devices (call light, restroom emergency button) and position within easy reach for the resident/patient/client.	✓		X																							
i. Demonstrate the correct use of restraints/safety devices according the facility standards.	✓					X																				X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
Infection Control - HS-NE-9: The student will describe and demonstrate infection control practices.																									
a. Use correct medical aseptic hand washing techniques.	✓						X							X	X	X	X	X	X	X	X			X	X
b. Use standard precautions when providing care.	✓						X							X	X	X	X			X	X			X	X
c. Use isolation precautions correctly when providing care.	✓						X										X			X	X				X
d. Apply and remove Personal Protective Equipment (PPE) correctly.	✓															X	X	X		X	X			X	X
e. Demonstrate sterile technique	✓											X				X	X	X		X	X			X	X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
<p>Teamwork - HS-NE-10: The student will explain the role and responsibility of individual members of the healthcare team; and will interact effectively and sensitively with all team members in promoting the delivery of quality healthcare.</p>																										
ELA11C1 (a) Demonstrates an understanding of proper English usage and control of grammar, sentence and paragraph structure, diction, and syntax.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELA11LSV2 (c) Responds to questions with appropriate information.	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELA11LSV (g) Gives reasons in support of opinions expressed..	✓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<p>Personal Care Skills - HS-NE-11: The student will use information on the resident/patient/client care plan to assist with Activities of Daily Living (ADL's) skills while promoting the residents'/patients'/clients' independence. Beginning and ending procedures will be properly sequenced and performed with all resident/patient/client care.</p>																										
Demonstrate giving the patient/client a bed bath while maintaining patient/client privacy and dignity.																										
a. Assist the resident/patient/client with personal hygiene maintaining patient/client privacy.																										

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Applied Technologies Health Science	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
b. Apply principles of good skin care by observation, reporting and recording.	✓	X	X																							
c. Demonstrate providing oral hygiene, denture care, and eyeglasses care for patient/client.	✓														X						X					
d. Demonstrate a therapeutic backrub.	✓											X														
e. Demonstrate shaving for each of the following: male, female, electric, safety, and contraindications.	✓																								X	
f. Demonstrate the use of adaptive devices for dressing and grooming.																										
g. Assist the resident/patient/client in meeting nutritional needs, including special diets and hydration.	✓								X															X	X	
h. Demonstrate proper feeding techniques for the resident/patient/client as indicated.																										
i. Assist the resident/patient/client in meeting elimination needs.																										

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
<p>Basic Nursing Assistant Skills - HS-NE-12: The student will perform basic nursing skills within the scope of practice for a nursing assistant while maintaining resident/patient/client rights. Beginning and ending procedures (i.e. wash your hands, gather equipment, identify client, provide for privacy, etc...) will be performed with all resident/patient/ client care.</p>																										
a. Measure and record vital signs including blood pressure using manual and electronic equipment.	✓	X	X								X			X		X										X
b. Measure height and weight accurately.	✓									X							X									
c. Care for residents'/patients'/clients' environment.																										
d. Demonstrate understanding of body systems while recognizing abnormal changes in body function and reporting changes to supervisor.	✓	X														X		X		X	X			X		
e. Assist in maintaining fluid balance.	✓																							X		
f. Provide care for various types of urinary catheters.																										

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
g. Collect specimens according to facility policy and procedure.	✓					X																					
h. Follow facility guidelines for caring for residents/patients/clients with various drainage tubes.	✓					X																					
i. Demonstrate the care of the resident/patient/client when death is imminent and post-mortem care (may simulate as necessary).																											
j. Provide care for resident/patient/client receiving oxygen therapy.																											
Basic Restorative Services - HS-NE-13: The student will demonstrate nursing assistant skills which incorporate the principles of restorative nursing.																											
a. Describe the role of the nursing assistant in restorative care.	✓																									X	
b. Identify ways to promote a resident's/patient's/client's independence.																											
c. Demonstrate the use of assistive devices and equipment in transferring and ambulation.	✓																								X	X	

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
d. Demonstrate range of motion exercises for the resident/patient/client.	✓																									X	
e. Assist the resident/patient/client with ambulation with and without a gait belt.	✓																									X	
f. Assist the resident/patient/client with bowel and bladder training.																											
g. Demonstrate the care and use of prosthetic and orthotic devices.																											
h. Use techniques to prevent pressure sores and contractures.																											
Nurse Assisting in Sub-Acute and Acute Care - HS-NE-14: The student will analyze and demonstrate (may simulate as necessary) nursing assistant skills which may be performed in an acute care setting																											
a. Describe the psychological and physical preparation of the preoperative patient/client.	✓																					X					
b. Demonstrate pre and post operative care procedures within scope of practice.	✓					X																X				X	

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways															
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
c. Explain the nursing assistant's responsibilities when caring for a resident/patient/client with special medical equipment and devices included but not limited to intravenous pumps and portable oxygen.																											
d. Discuss the nursing assistant's responsibilities when caring for post-partum patients.																											
Home Health Care - HS-NE-15: The student will analyze the role of the nursing assistant in a home health setting.																											
a. Compare and contrast the nursing assistant role in home care to an acute or long-term care setting.	✓			X																							
b. Discuss procedure modifications for a home care setting.	✓			X																							
c. Discuss how to promote safety and infection control in home care.																											
CTAE Foundation Skills																											
CTAE-FS-1 Technical Skills: Learners achieve technical content skills necessary to pursue the full range of careers for all pathways in the program concentration.	✓	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
CTAE-FS-2 Academic Foundations: Learners achieve state academic standards at or above grade level.	✓	X	X	X	X	X							X	X				X	X	X		X	X		X	X
CTAE-FS-3 Communications: Learners use various communication skills in expressing and interpreting information.	✓	X	X	X	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CTAE-FS-4 Problem Solving and Critical Thinking: Learners define and solve problems, and use problem-solving and improvement methods and tools.	✓	X	X	X	X	X			X				X	X			X	X	X	X	X	X	X		X	X
CTAE-FS-5 Information Technology Applications: Learners use multiple information technology devices to access, organize, process, transmit, and communicate information.	✓	X	X	X	X	X				X		X			X			X		X		X				X
CTAE-FS-6 Systems: Learners understand a variety of organizational structures and functions.	✓			X		X																X	X			
CTAE-FS-7 Safety, Health and Environment: Learners employ safety, health and environmental management systems in corporations and comprehend their importance to organizational performance and regulatory compliance.	✓			X		X		X			X					X	X	X	X	X		X	X		X	
CTAE-FS-8 Leadership and Teamwork: Learners apply leadership and teamwork skills in collaborating with others to accomplish organizational goals and objectives.	✓	X	X	X	X	X			X						X			X	X		X	X	X			X

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services COURSE TITLE: Nursing Essentials PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
CTAE-FS-9 Ethics and Legal Responsibilities: Learners commit to work ethics, behavior, and legal responsibilities in the workplace	✓				X	X	X								X	X			X		X		X		X	X
CTAE-FS-10 Career Development: Learners plan and manage academic-career plans and employment relations.	✓				X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CTAE-FS-11 Entrepreneurship: Learners demonstrate understanding of concepts, processes, and behaviors associated with successful entrepreneurial performance.	✓				X	X							X	X			X	X	X		X	X		X	X	

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
SAFETY AND SECURITY - HS-TSNI-1. Students will understand and apply principles of safety and security in a healthcare setting.																									
a. Identify unsafe working conditions and identify how to maintain a safe work environment and prevent accidents.	✓						X			X	X				X		X		X	X	X			X	X
b. Demonstrate methods of fire prevention including location of extinguishers and alarms.	✓						X																		
c. Demonstrate appropriate action when observing a hazardous materials problem.	✓						X							X		X									
d. Differentiate between infectious diseases and noninfectious diseases and demonstrate the use of standard precautions as described in the rules and regulations set forth by the Occupational Safety and Health Administration.	✓				X		X					X							X	X	X	X			
e. Demonstrate strategies for staying healthy and disability prevention to include body ergonomics and the development of a stress control plan.	✓						X		X			X						X						X	
f. Identify and maintain security procedures as designated by each healthcare clinic, facility, office, and/or system utilized.	✓			X	X						X							X							

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
Academic Standards:																										
SCSh2. Students will use standard safety practices for all classroom laboratory and workplace investigations.	✓						X						X	X	X	X	X	X			X	X			X	X
INTERPERSONAL - HS-TSNI-2. Students will apply principles of communication and customer service in all healthcare settings utilized.																										
a. Demonstrate the ability to communicate with courtesy, empathy, tact, and emotional control with clients, visitors, and other staff members while demonstrating respect for cultural, social, and ethnic diversity in all professional environments utilized for internship.	✓		X		X		X									X	X			X	X				X	
b. Demonstrate correct use of the telephone, fax, intercom, pager, and other office equipment while maintaining confidentiality.	✓		X		X		X				X									X						
c. Demonstrate appropriate etiquette when receiving telephone calls, emails, faxes, or memos, and/or dealing with complaints.	✓		X		X						X									X						

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
INFORMATION PROCESSING - HS-TSNI-3. Students will interpret and process pertinent medical and non-medical information.																									
a. Demonstrate basic math skills including, but not limited to: interpreting and recording data on graphs, charts, and tables; demonstrating conversions between Roman and Arabic numerals and US Standard time (Greenwich Mean Time) and Military time (24 hour clock); and applying conversion constants between metric and avoirdupois systems and within each system.	✓	X	X	X										X				X			X	X	X		X
b. Demonstrate methods used to determine pertinent criteria including problem and resource identification in a given situation.	✓	X	X	X	X	X		X						X				X			X	X			X
c. Demonstrate problem-solving techniques.	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X		X	X	X	X		X
d. Demonstrate prioritization and decision-making skills including identification of medical conditions or situations, which would take priority over others.	✓			X	X											X	X		X		X			X	
Academic Standards:																									
MM2P1. Students will solve problems (using appropriate technology)	✓	X	X	X	X	X								X	X	X		X		X			X		X

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
MM2P4. Students will make connections among mathematical ideas and to other disciplines	✓	X		X									X		X			X		X	X	X	X		X	
ELA9RL5. The student understands and acquires new vocabulary and uses it correctly in reading and writing.	✓	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ELA10W1(a). Establishes a clear, distinctive perspective and maintains a consistent tone and focus throughout.	✓	X	X	X	X	X						X	X		X	X	X		X	X	X		X	X		
ELA10LSV1. The student participates in student-to-teacher, student-to-student, and group verbal interactions.	✓	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	
OCCUPATION SPECIFIC - HS-TSNI-4. Students will acquire nursing essential skills and apply in a clinical setting for a minimum of 40 hours.																										
a. Demonstrate understanding of knowledge and skills for career focus.	✓				X								X	X	X	X	X	X	X	X	X	X	X	X	X	X
b. Apply the employability skills required for proficiency as a nursing assistant.	✓				X											X				X				X		

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
c. Demonstrate behavior which maintains residents'/patients' rights and practice resident/patient/client privacy according to OBRA and HIPAA guidelines	✓				X	X					X									X	X			X	
d. Communicate effectively with residents/patients/clients, healthcare team members, and resident/patient/client family or visitors using appropriate customer service skills.	✓		X	X	X	X						X								X	X				
e. Demonstrate appropriate behaviors meeting mental health and social service needs of resident/patient/client.																									
f. Analyze the organizational structure of the nursing facility.	✓			X																					
g. Apply the legal and ethical principles of providing care and fulfilling job responsibilities for competent and incompetent residents/patients/clients.	✓				X	X									X					X					
h. Practice safety measures in providing resident/patient/client care.	✓						X				X					X		X	X	X	X	X	X	X	X
i. Describe and demonstrate infection control practices.	✓						X							X		X	X	X	X	X	X	X	X	X	X

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Applied Technologies Health Science	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
j. Explain the role and responsibility of individual members of the healthcare team; interact effectively and sensitively with all team members in promoting the delivery of quality healthcare.	✓		X	X	X	X		X							X			X			X		X			
k. Use information on the resident/patient/client care plan to assist with Activities of Daily Living (ADL's) skills while promoting the residents'/patients'/clients' independence.	✓		X	X																						
l. Perform basic nursing skills within the scope of practice for a nursing assistant while maintaining resident/patient/client rights.	✓					X																X			X	
m. Perform all beginning and ending procedures (i.e. wash your hands, gather equipment, identify client, provide for privacy, etc...) with all resident/patient/client care.	✓																	X				X	X		X	X
n. Demonstrate nursing assistant skills which incorporate the principles of restorative nursing.	✓																								X	
o. Analyze and demonstrate (may simulate as necessary) nursing assistant skills which may be performed in an acute care setting.	✓			X																						
p. Analyze the role of the nursing assistant in a home health setting.	✓			X																						

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine	
q. Perform objectives and complete assigned tasks in assigned clinical area according to facility standards according to their scope of practice.	✓				X									X				X			X	X			X	
r. Apply basic patient care skills in a clinical setting based on their scope of practice.	✓			X	X																	X			X	
Academic standards:																										
ELA10W1(d). Uses precise language, action verbs, sensory details, appropriate modifiers, and active rather than passive voice.	✓	X	X	X	X	X			X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELA11C1(a). Demonstrates an understanding of proper English usage and control of grammar, sentence and paragraph structure, diction, and syntax.	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELA11LSV2(c). Responds to questions with appropriate information.	✓	X	X	X	X	X			X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
ELA11LSV(g). Gives reasons in support of opinions expressed.	✓	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways														
		Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
CTAE Foundation Skills																										
CTAE-FS-1 Technical Skills: Learners achieve technical content skills necessary to pursue the full range of careers for all pathways in the program concentration.	✓	X	X	X	X	X					X			X	X	X	X	X	X	X	X	X	X	X	X	X
CTAE-FS-2 Academic Foundations: Learners achieve state academic standards at or above grade level.	✓	X	X	X	X	X								X	X			X	X	X		X	X		X	X
CTAE-FS-3 Communications: Learners use various communication skills in expressing and interpreting information.	✓	X	X	X	X	X			X			X	X	X	X		X	X	X	X	X	X	X	X	X	X
CTAE-FS-4 Problem Solving and Critical Thinking: Learners define and solve problems, and use problem-solving and improvement methods and tools.	✓	X	X	X	X	X			X					X	X	X	X	X	X	X	X	X	X	X	X	X
CTAE-FS-5 Information Technology Applications: Learners use multiple information technology devices to access, organize, process, transmit, and communicate information.	✓	X	X	X	X	X						X			X				X		X		X			X
CTAE-FS-6 Systems: Learners understand a variety of organizational structures and functions.	✓			X		X															X		X			

Therapeutic Services Nursing Internship

PROGRAM CONCENTRATION: Healthcare Science CAREER PATHWAY: Therapeutic Services Nursing COURSE TTL: Therapeutic Services Nursing Internship PRE-REQUISITES: Introduction to Healthcare Science & Applications of Therapeutic Services	Applied Technologies Health Science	Health Science Foundations										Health Science Career Pathways													
	Academic Foundations	Communications	Systems	Employability Skills	Legal Responsibilities	Ethics	Safety Practices	Teamwork	Health Maintenance Practices	Technical Skills	Information Technology Skills	Alternative Medicine	Biomedical Applications	Cardiac Diagnostics	Clinical Laboratory Science	Dental Diagnostics	First Aid/CPR	Forensic Science	Imaging Diagnostics	Medical Office Technology	Optical Diagnostics	Pathogens and Disease	Pharmacology	Sports Medicine	Veterinary Medicine
CTAE-FS-7 Safety, Health and Environment: Learners employ safety, health and environmental management systems in corporations and comprehend their importance to organizational performance and regulatory compliance.	✓			X	X		X		X	X			X		X	X	X		X		X	X		X	
CTAE-FS-8 Leadership and Teamwork: Learners apply leadership and teamwork skills in collaborating with others to accomplish organizational goals and objectives.	✓	X	X	X	X	X						X		X		X	X	X		X		X			X
CTAE-FS-9 Ethics and Legal Responsibilities: Learners commit to work ethics, behavior, and legal responsibilities in the workplace	✓				X	X	X						X	X	X			X		X	X	X		X	X
CTAE-FS-10 Career Development: Learners plan and manage academic-career plans and employment relations.	✓				X							X	X	X	X	X	X		X	X	X	X	X	X	X
CTAE-FS-11 Entrepreneurship: Learners demonstrate understanding of concepts, processes, and behaviors associated with successful entrepreneurial performance.	✓				X								X	X			X	X			X	X		X	X