

Oklahoma High School Health Science Career Standards - Health Careers I	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					
I. Knowledge and Skills																															
A. Academic Foundation																															
1. Apply mathematical computations related to healthcare procedures (metric and household, conversions and measurements).	✓																	X	X	X			X		X	X		X	X		
2. Classify the basic structural and functional organization of the human body (chemical, cellular, tissue, organ, and system).	✓	X																		X			X	X					X		
3. Recognize body planes, directional terms, quadrants, and cavities.	✓	X																					X						X		
4. Analyze the basic structure and function of the human body.	✓	X																	X				X						X		
5. Analyze diagrams, charts, graphs, and tables to interpret healthcare results.	✓			X			X																X			X	X	X			
6. Record time using the 24-hour clock.	✓					X																									
7. Describe common diseases and disorders of each body system (prevention, pathology, diagnosis, and treatment).	✓	X	X																X		X	X	X	X	X			X	X	X	X
8. Recognize emerging diseases and disorders.	✓	X								X											X										
9. Investigate biomedical therapies as they relate to the prevention, pathology, and treatment of disease.	✓						X													X											

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B. Communications																											
1. Interpret verbal and nonverbal communication.	✓		X	X	X	X	X	X	X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X
2. Recognize barriers to communication.	✓		X	X	X	X	X		X		X		X		X	X			X	X	X	X		X	X	X	
3. Report relevant information in order of occurrence.	✓		X		X	X	X											X	X				X				
4. Report subjective and objective information.	✓		X		X													X				X					
5. Recognize the elements of communication using a sender-receiver model.	✓		X																								
6. Apply speaking and active listening skills.	✓		X		X		X		X		X			X			X	X					X				
7. Use roots, prefixes, and suffixes to communicate information.	✓	X	X										X		X	X	X		X						X		
8. Use medical abbreviations to communicate information.	✓		X	X											X	X	X	X	X		X	X	X	X	X	X	

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C. Personal Traits of the Healthcare Professional																										
1. Classify the personal traits or attitudes desirable in a member of the healthcare team.	✓		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2. Summarize basic professional standards of the healthcare workers as they apply to hygiene, dress, language, confidentiality and behavior (i.e. courtesy and self-introductions).	✓		X		X		X							X		X			X	X	X					
D. Key Employability Skills																										
1. Apply employability skills in a healthcare setting.	✓		X		X				X						X	X				X			X			
2. Exemplify professional characteristics.	✓		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3. Engage in continuous self-assessment and career goal modification for personal and professional growth.	✓				X		X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
E. Career Decision-making																										
1. Compare careers within the health science career pathways (diagnostic services, therapeutic services, health informatics, support services, or biotechnology research and development).	✓			X	X																					
2. Recognize levels of education, credentialing requirements, employment opportunities, workplace environments, and career growth potential.	✓				X								X	X	X	X	X	X	X	X	X	X	X	X	X	

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F. Legal Issues and Ethics																											
1. Analyze legal responsibilities and limitations.	✓		X	X	X	X	X	X	X			X	X	X		X			X		X	X		X	X		
2. Explain practices that could result in malpractice, liability, and/or negligence.	✓					X	X																			X	
3. Apply procedures for accurate documentation and record keeping.	✓		X			X		X				X	X			X		X	X	X	X	X	X	X	X	X	
4. Interpret healthcare facility policies and procedures.	✓			X	X	X																	X				
5. Differentiate between ethical and legal issues impacting healthcare.	✓						X						X												X		
6. Compare personal, professional, and organizational ethics.	✓						X						X	X													
7. Recognize ethical issues and their implications related to healthcare .	✓					X	X						X	X	X					X		X		X			
8. Apply standards for Health Insurance Portability and Accountability Act (HIPAA).	✓					X	X																				
9. Describe advance directives.	✓					X																					
10. Summarize the Patient's Bill of Rights.	✓						X																				

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11. Understand informed consent.	✓					X	X							X													
12. Analyze legislated scope of practice of healthcare professionals.	✓					X	X							X			X				X			X			
13. Explain laws governing harassment, labor, and employment.	✓					X	X																				
14. Apply ethical behaviors in a healthcare setting.	✓					X	X								X	X	X				X		X		X		
15. Apply procedures for reporting activities and behaviors that affect the health, safety, and welfare of others.	✓					X	X										X				X						
G. Infection Control																											
1. Explain principles of infection control.	✓													X		X	X	X		X	X	X	X	X	X	X	X
2. Describe methods of controlling the growth of microorganisms.	✓													X			X	X		X	X		X	X	X	X	
H. Personal Safety																											
1. Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations (including standard precautions).	✓																										

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2. Apply principles of body mechanics and ergonomics.	✓						X					X			X	X	X	X	X	X	X		X	X			
I. Environmental Safety																											
1. Evaluate the environment to recognize safe and unsafe working conditions.	✓						X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2. Apply safety techniques to prevent accidents and to maintain a safe work environment.	✓						X	X			X	X	X	X	X	X	X	X	X	X	X		X	X	X		
J. Common Safety Hazards																											
1. Recognize Materials Safety Data Sheets (MSDS).	✓						X								X												
2. Comply with safety signs, symbols, and labels.	✓						X								X								X				
3. Understand implications of hazardous materials.	✓						X								X												
K. Safety Practices																											
1. Practice fire safety in a healthcare setting.	✓						X							X	X												
2. Apply principles of basic emergency response in natural disasters and other emergencies.	✓									X												X					

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L. Health Care Teams																										
1. Understand roles and responsibilities of team members.	✓								X									X								
2. Recognize characteristics of effective teams.	✓								X																	
M. Team Member Participation																										
1. Recognize methods for building positive team relationships.	✓								X																	
2. Analyze attributes and attitudes of an effective leader.	✓								X																	
3. Recognize factors and situations that may lead to conflict.	✓								X																	
4. Apply effective techniques for managing team conflict.	✓								X																	
N. Technical Skills																										
1. Apply procedures for measuring and recording vital signs including the normal ranges.	✓										X			X			X			X					X	X
2. Apply skills to obtain training or certification in cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), foreign body airway obstruction (FBAO) and first aid.	✓										X						X									

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O. Healthcare Delivery Systems																											
1. Understand the healthcare delivery system (public, private, government, and non-profit).	✓			X																							
2. Explain the factors influencing healthcare delivery systems.	✓			X																							
3. Describe the responsibilities of consumers within the healthcare system.	✓			X																							
4. Explain the impact of emerging issues such as technology, epidemiology, bioethics, and socioeconomics on healthcare delivery systems.	✓			X	X	X						X															
5. Discuss common methods of payment for healthcare.	✓			X																							
P. Healthy Behaviors																											
1. Apply behaviors that promote health and wellness.	✓			X					X			X	X	X		X	X		X	X		X	X	X	X		
2. Describe strategies for the prevention of diseases including health screenings and examinations.	✓			X			X		X																		
3. Apply practices that promote the prevention of disease and injury.	✓								X		X	X	X											X			
4. Apply appropriate safety practices as related to high-risk behaviors.	✓			X					X		X											X					

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Q. Health Maintenance Practices																											
1. Discuss complementary (alternative) health practices as they relate to wellness and disease prevention.	✓			X						X		X															
R. Cultural , Social, and Ethnical Diversity																											
1. Understand religious and cultural values as they impact healthcare.	✓			X	X		X					X									X						
2. Demonstrate respectful and empathetic interactions with diverse age, cultural, economic, ethnic, and religious groups .	✓			X	X		X		X			X									X						
S. Information Technology																											
1. Communicate using technology (fax, e-mail, and Internet) to access and distribute data and other information.	✓		X								X										X						
2. Recognize technology applications in healthcare.	✓		X								X		X	X	X	X		X	X	X	X	X	X	X	X		
T. Health Information Management																											
1. Identify records and files common to the healthcare setting.	✓		X								X				X	X		X		X		X		X			
2. Interpret information from electronic medical documents.	✓										X										X						

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I. Core Concepts of Effective Communication																										
A. Concepts of Effective Communication																										
1. Interpret verbal and nonverbal communication.	✓	X	X	X	X	X	X	X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X
2. Recognize barriers to communication.	✓	X	X	X	X	X		X		X		X		X	X			X	X	X	X		X	X	X	
3. Report relevant information in order of occurrence.	✓	X		X	X	X											X	X				X				
4. Report subjective and objective information.	✓	X		X													X					X				
5. Recognize elements of communication using a sender-receiver model.	✓	X																								
6. Apply speaking and active listening skills.	✓	X		X		X		X		X		X		X		X	X					X				
B. Written Communication Skills																										
1. Recognize elements of written and electronic communication (spelling, grammar, formatting and confidentiality).	✓	X																			X					
2. Describe techniques for planning and organizing written documents.	✓	X								X											X					

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II. Core Medical Math																										
A. Medical Mathematics																										
1. Apply mathematical computations related to healthcare procedures (metric and household, conversions and measurements).	✓											X	X	X	X		X	X		X	X		X	X		
2. Analyze diagrams, charts, graphs, and tables to interpret healthcare data.	✓			X		X										X					X		X			
3. Record time using 24-hour clock.	✓	X																								
III. Core Safety																										
A. Infection Control																										
1. Explain principles of infection control.	✓						X					X	X	X	X		X	X	X	X	X	X	X	X	X	X
2. Describe methods of controlling growth of microorganisms.	✓						X							X	X		X	X		X	X	X	X	X	X	
B. Personal Safety																										
1. Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations (including standard precautions).	✓						X								X											

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2. Apply principles of body mechanics and ergonomics.	✓						X					X			X	X	X	X	X	X	X		X	X			
C. Environmental Safety																											
1. Evaluate environment to recognize safe and unsafe working conditions.	✓					X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2. Apply safety techniques to prevent accidents and to maintain a safe work environment.	✓					X	X			X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		
D. Common Safety Hazards																											
1. Recognize Materials Safety Data Sheets (MSDS).	✓						X								X												
2. Comply with safety signs, symbols, and labels.	✓						X								X								X				
3. Understand implications of hazardous materials.	✓						X								X												
E. Emergency Procedures and Protocols																											
1. Practice fire safety in a healthcare setting.	✓						X							X	X												
2. Apply principles of basic emergency response in natural disasters and other emergencies.	✓									X												X					

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IV. Core Information Technology Applications																										
A. Health Information Management																										
1. Identify records and files common to healthcare.	✓	X												X								X				X
2. Interpret information from electronic medical documents.	✓	X																								
B. Information Technology																										
1. Communicate using technology (fax, e-mail, and Internet) to access and distribute data and other information.	✓	X									X										X					
2. Recognize technology applications in healthcare.	✓	X									X	X	X	X	X		X	X	X	X	X	X	X	X		
V. Core Legal and Ethical Principles and Practice																										
A. Legal Implications																										
1. Analyze legal responsibilities and limitations.	✓	X	X	X	X	X	X	X			X	X	X		X			X		X	X		X	X		
2. Explain practices that could result in malpractice, liability, and/or negligence.	✓				X	X																				

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3. Apply procedures for accurate documentation and record keeping.	✓		X			X	X				X	X				X		X	X	X	X	X	X	X	X		
4. Interpret healthcare facility policies and procedures.	✓			X	X	X																X					
B. Legal Practices																											
1. Apply standards for Health Insurance Portability and Accountability Act (HIPAA).	✓					X	X																				
2. Describe advance directives.	✓					X																					
3. Summarize the Patient's Bill of Rights.	✓						X																				
4. Understand informed consent.	✓					X	X					X															
5. Analyze legislated scope of practice of healthcare professionals.	✓					X	X					X			X					X				X			
6. Explain the laws governing harassment, labor, and employment.	✓					X	X																				
C. Ethical Boundaries																											
1. Differentiate between ethical and legal issues impacting healthcare.	✓						X						X												X		

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2. Compare personal, professional, and organizational ethics.	✓						X							X	X												
3. Recognize ethical issues and their implications related to healthcare.	✓					X	X							X	X	X					X		X		X		
D. Ethical Practice																											
1. Apply ethical behaviors in healthcare.	✓					X	X							X	X	X					X		X		X		
2. Apply procedures for reporting activities and behaviors that affect health, safety, and welfare of others.	✓					X	X									X				X							
E. Cultural, Social, and Ethnic Diversity																											
1. Understand religious and cultural values as they impact healthcare.	✓			X	X		X						X								X						
2. Demonstrate respectful and empathetic interactions with diverse age, cultural, economic, ethnic, and religious groups.	✓			X	X		X		X				X							X							
VI. Core Teamwork in Healthcare																											
A. Healthcare Teams																											
1. Understand roles and responsibilities of team members.	✓								X											X							

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4. Apply appropriate safety practices as related to high-risk behaviors.	✓			X						X		X												X			
5. Discuss complementary and alternative health practices.	✓			X						X		X															
VIII. Core Healthcare Delivery Systems																											
A. Systems																											
1. Understand systems theory as it relates to a healthcare delivery system model.	✓			X																							
2. Explain the cause and effect of factors influencing various healthcare delivery systems..	✓			X																							
3. Summarize the interdependence of healthcare professions within a given healthcare delivery system..	✓			X																							
4. Interpret the various roles of healthcare providers and clients within the healthcare system..	✓			X	X																						
5. Explain the impact of 21st century emerging issues such as technology, epidemiology, bioethics, and socioeconomics on healthcare systems.	✓			X	X	X						X															

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IX. Core Healthcare Delivery Systems																										
A. Personal Traits of the Healthcare Professional																										
1. Classify personal traits or attitudes desirable in a member of the healthcare team.	✓	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
2. Summarize basic professional standards of healthcare workers as they apply to hygiene, dress, language, confidentiality and behavior (i.e. courtesy and self-introductions).	✓	X		X		X								X		X			X	X	X					
B. Employability Skills																										
1. Apply employability skills in healthcare.	✓	X		X				X							X	X				X			X			
2. Exemplify professional characteristics.	✓	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3. Engage in continuous self-assessment and career goal modification for personal and professional growth.	✓			X		X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C. Career Decision-making																										
1. Compare careers within the health science career pathways (diagnostic services, therapeutic services, health informatics, support services, or biotechnology research and development).	✓			X	X																					

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2. Recognize levels of education, credentialing requirements, employment opportunities, workplace environments, and career growth potential	✓				X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
D. Employability Preparation																											
1. Develop components of a personal portfolio.	✓																										
2. Demonstrate process for obtaining employment.	✓											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
X. Core Technical Skills in Healthcare																											
A. Technical Skills																											
1. Apply procedures for measuring and recording vital signs.	✓									X			X			X			X						X	X	
2. Apply skills to obtain training or certification in cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), foreign body airway obstruction (FBAO), and first aid.	✓									X						X											