

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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	
A. MEDICAL / DENTAL TERMINOLOGY																											
1H01. Analyze medical and dental terminology.																											
1H01.01 Interpret medical word roots, prefixes and suffixes.	✓	X	X		X									X	X	X	X	X	X	X	X	X	X	X	X	X	X
1H02.02 Analyze words commonly used in medical/dental care.	✓	X	X		X									X	X	X	X	X	X	X	X	X	X	X	X	X	X
B. COMMUNICATIONS																											
1H02. Apply interpersonal communication skills.																											
1H02.01 Interpret elements of verbal and non-verbal communication.	✓		X	X	X	X	X	X	X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X
1H02.02 Discuss communication barriers.	✓		X	X	X	X	X	X		X		X		X	X			X	X	X	X		X	X	X	X	
1H02.03 Apply interpersonal communication skills.	✓		X	X	X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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	
C. BODY SYSTEMS																											
1H03. Analyze the relationship of tissues, organs, and body systems.																											
1H03.01 Explain the structural units of the body.	✓	X								X			X	X	X			X	X	X			X	X	X		
1H03.02 Analyze body tissues and membranes.	✓	X																X				X	X				
D. INTEGUMENTARY SYSTEM																											
1H04. Analyze the anatomy and physiology of the integumentary system.																											
1H04.01 Explain the structure of the integumentary system.	✓	X											X					X					X		X		
1H04.02 Analyze the function of the integumentary system.	✓	X											X					X					X		X		
1H04.03 Discuss characteristics and treatment of common skin disorders.	✓	X																									

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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	
E. SKELETAL SYSTEM																											
1H05. Analyze the anatomy and physiology of the skeleton.																											
1H05.01 Explain the structure of the bones.	✓	X								X			X					X	X							X	
1H05.02 Analyze the function of the skeletal system.	✓	X								X			X					X	X							X	
1H05.03 Discuss characteristics and treatment of common skeletal disorders.	✓	X								X			X	X													
F. MUSCULAR SYSTEM																											
1H06. Analyze the anatomy and physiology of the muscles.																											
1H06.01 Explain the structure of the muscles.	✓	X								X			X									X				X	
1H06.02 Analyze the function of the muscular system.	✓	X								X			X									X				X	
1H06.03 Discuss characteristics and treatment of common muscle disorders.	✓	X								X				X												X	

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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
G. HEMATOLOGY																										
1H07. Analyze the anatomy and physiology of the blood.																										
1H07.01 Explain the structure of the blood.	✓	X								X			X	X	X			X				X	X		X	
1H07.02 Analyze the function of the blood.	✓	X								X			X	X	X			X				X	X		X	
1H07.03 Discuss characteristics and treatment of common blood disorders.	✓	X								X			X	X												
H. CIRCULATORY SYSTEM																										
1H08. Analyze the anatomy and physiology of the circulatory system.																										
1H08.01 Explain the structure of the heart.	✓	X								X			X	X			X								X	
1H08.02 Analyze the function of the heart.	✓	X								X			X	X			X								X	
1H08.03 Analyze circulation and the blood vessels.	✓	X								X			X	X											X	
1H08.04 Discuss characteristics and treatment of common cardiac and circulatory disorders.	✓	X								X			X	X			X								X	

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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. LYMPHATIC SYSTEM AND IMMUNITY																											
1H09. Analyze the anatomy and physiology of the lymphatic system.																											
1H09.01 Explain the structure of the lymphatic system.	✓	X																									
1H09.02 Analyze the function of the lymphatic system.	✓	X																									
1H09.03 Discuss characteristics and treatment of common lymphatic disorders.	✓	X																									
1H09.04 Apply standard precautions.	✓	X																									
J. RESPIRATORY SYSTEM																											
1H10. Analyze the anatomy and physiology of the respiratory system.																											
1H10.01 Explain the structure of the respiratory system.	✓	X									X														X	X	
1H10.02 Analyze the structure of the respiratory system.	✓	X									X														X	X	
1H10.03 Discuss characteristics and treatment of common respiratory disorders.	✓	X									X														X		

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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
K. NERVOUS SYSTEM																										
1H11. Analyze the anatomy and physiology of the nervous system.																										
1H11.01 Explain the structure of the brain, spinal cord and nerves.	✓	X								X			X									X				
1H11.02 Analyze the function of the nervous system.	✓	X											X									X				
1H11.03 Discuss characteristics and treatment of common nervous system disorders.	✓	X																X								
L. SENSORY SYSTEM																										
1H12. Analyze the anatomy and physiology of the special senses.																										
1H12.01 Explain the structure of the eye.	✓	X																				X				
1H12.02 Analyze the function of the eye.	✓	X																				X				
1H12.03 Explain the structure and function of the ear, nose and tongue.	✓	X	X										X										X			
1H12.04 Discuss characteristics and treatment of common sensory disorders.	✓	X																				X				

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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
M. DIGESTIVE SYSTEM																										
1H13. Analyze the anatomy and physiology of the digestive system.																										
1H13.01 Explain the structure of the digestive system.	✓	X									X							X	X					X		
1H13.02 Analyze the function of the digestive system.	✓	X									X							X	X					X		
1H13.03 Discuss characteristics and treatment of common digestive disorders.	✓	X									X													X		
N. NUTRITION																										
1H14. Analyze nutritional factors that relate to body structure and function.																										
1H14.01 Analyze the function of nutrients.	✓									X		X	X							X			X	X	X	
1H14.02 Analyze dietary guidelines.	✓			X						X		X	X						X		X	X	X	X	X	
1H14.03 Discuss characteristics and treatment of common eating disorders.	✓	X								X			X											X		

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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	
O. URINARY SYSTEM																											
1H15. Analyze the anatomy and physiology of the urinary system.																											
1H15.01 Explain the structure of the urinary system.	✓	X													X			X									
1H15.02 Analyze the function of the urinary system.	✓	X													X			X									
1H15.03 Discuss characteristics and treatment of common urinary disorders.	✓	X																									
P. ENDOCRINE SYSTEM																											
1H16. Analyze the anatomy and physiology of the endocrine system.																											
1H16.01 Explain the structure of the endocrine system.	✓	X																X									
1H16.02 Analyze the function of the endocrine system.	✓	X																X									
1H16.03 Discuss characteristics and treatment of common endocrine disorders.	✓	X																									

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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
Q. REPRODUCTIVE SYSTEM.																										
1H17. Analyze the anatomy and physiology of the reproductive system.																										
1H17.01 Explain the structure of the male reproductive system.	✓	X																								X
1H17.02 Analyze the function of the male reproductive system.	✓	X																								X
1H17.03 Explain the structure of the female reproductive system.	✓	X																								X
1H17.04 Analyze the function of the female reproductive system.	✓	X																								X
1H17.05 Discuss characteristics and treatment of common reproductive disorders.	✓	X																								X
R. HEALTH CARE PROFESSIONS																										
1H18. Analyze the health care professions.																										
1H18.01 Analyze medical/health professions and related employment opportunities.	✓		X	X	X		X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
1H18.02 Discuss preparation and credentials needed in medical/health professions.	✓		X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

North Carolina VoCATS Health Occupations Education 7211 Allied Health Sciences 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
1H18.03 Analyze professional/ethical characteristics of medical/health professions.	✓		X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1H18.04 Perform mathematical conversions common to the medical/health professions.	✓											X		X	X			X		X	X		X	X		
1H18.05 Revise personal career development plan.	✓		X		X		X		X					X	X	X	X	X	X	X	X	X	X	X	X	X

North Carolina VoCATS Health Occupations Education 7212 Allied Health Sciences II	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	
A. HEALTH CARE SYSTEMS																											
2H01. Analyze the health care delivery system.																											
2H01.01 Analyze health care facilities, including government and non-profit agencies.	✓			X		X	X	X				X	X														
2H01.02 Explore Health insurance, organizational structure, and trends in health care.	✓			X		X	X	X				X	X														
B. CLIENT COMMUNICATIONS																											
2H02. Apply interpersonal communication skills in health care settings.																											
2H02.01 Apply medical terminology and abbreviations.	✓	X	X		X	X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2H02.02 Analyze effective and ineffective communication practices.	✓		X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	
2H02.03 Apply customer service skills in a health care setting.	✓		X		X	X	X	X					X								X			X			

North Carolina VoCATS Health Occupations Education 7212 Allied Health Sciences II	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. EMPLOYABILITY SKILLS																										
2H03. Practice effective employability skills.																										
2H03.01 Demonstrate the professional qualities of a health care worker.	✓	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
2H03.02 Prepare for the world of work.	✓	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
D. LEGAL AND ETHICAL RESPONSIBILITIES																										
2H04. Apply appropriate legal and ethical behaviors.																										
2H04.01 Analyze legal roles and responsibilities.	✓	X	X	X	X	X	X	X			X	X	X		X			X		X	X		X	X		
2H04.02 Evaluate ethical behavior in a health care setting.	✓	X	X	X	X	X	X		X	X	X		X	X		X	X	X	X	X		X	X			
2H04.03 Explore legal and ethical issues related to death and dying.	✓		X		X	X	X					X					X	X				X				

North Carolina VoCATS Health Occupations Education 7212 Allied Health Sciences II	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. SAFETY PRACTICES																										
2H05. Promote safety practices in a health care setting.																										
2H05.01 Apply body mechanics and client safety measures.	✓	X			X	X	X	X		X		X			X	X	X	X	X	X	X			X	X	
2H05.02 Observe fire safety regulations.	✓						X								X											
F. INFECTION CONTROL																										
2H06. Apply infection control measures in a clinical setting.																										
2H06.01 Analyze principles of infection control.	✓						X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2H06.02 Maintain sterile technique and isolation.	✓						X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
G. EMERGENCY CARE SKILLS																										
2H07. Provide first aid in an emergency setting.																										
2H07.01 Acquire certification in cardiopulmonary resuscitation.	✓									X							X									

North Carolina VoCATS Health Occupations Education 7212 Allied Health Sciences II	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	
2H07.02 Provide basic first aid.	✓										X						X									X	
H. DIAGNOSTIC SKILLS																											
2H08. Apply diagnostic skills in a clinical setting.																											
2H08.01 Measure and record vital signs.	✓													X			X			X					X	X	
2H08.02 Apply medical assisting and laboratory skills.	✓																			X				X			
I. NUTRITION AND DIET THERAPY																											
2H09. Analyze client nutrition and diet therapy.																											
2H09.01 Analyze patient/client nutritional measures.	✓								X			X	X	X		X			X				X	X	X	X	
2H09.02 Evaluate therapeutic diets.	✓			X					X			X	X	X		X			X				X	X	X	X	

North Carolina VoCATS Health Occupations Education 7212 Allied Health Sciences II	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	
J. DENTAL AND PHARMACY SKILLS																											
2H10. Apply skills related to dental and pharmaceutical careers.																											
2H10.01 Identify teeth and dental instruments.	✓																				X	X					
2H10.02 Work with medications and mathematical conversions.	✓																				X	X					
K. NURSING SKILLS																											
2H11. Apply patient care skills in a clinical setting																											
2H11.01 Position, turn and transfer patients.	✓																			X	X		X				
2H11.02 Make a bed.	✓																						X				
2H11.03 Administer personal care and apply restraints.	✓																										X

North Carolina VoCATS Health Occupations Education 7212 Allied Health Sciences II	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
L. THERAPY AND SPORTS MEDICINE																										
2H12. Apply therapeutic skills for rehabilitation and injury prevention.																										
2H12.01 Demonstrate assistive and therapeutic techniques.	✓									X			X												X	
2H12.02 Analyze the therapeutic role of massage therapy and sports medicine.	✓												X						X							X
M. INFORMATION SERVICES																										
2H13. Apply business skills in a health care setting.																										
2H13.01 File records using the alphabetical and numerical system.	✓	X			X	X					X										X					
2H13.02 Use telephone and scheduling techniques.	✓	X				X						X									X					

North Carolina VoCATS Health Occupations Education 7212 Allied Health Sciences II	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
N. ENVIRONMENTAL AND MEDICAL CAREERS																										
2H14. Analyze environmental and public health issues.																										
2H14.01 Evaluate careers and services related to environmental and public health.	✓	X	X	X	X	X	X													X		X	X			
2H14.02 Demonstrate medical assessment skills.	✓	X	X			X				X		X	X	X	X		X		X	X	X	X	X			
O. CAREER SPECIALTY																										
2H15. Develop and apply skills related to a specific career goal.																										
P. CLINICAL INTERNSHIP																										
2H16. Apply skills in a clinical setting.																										

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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	
A. MEDICAL / DENTAL TERMINOLOGY																											
MD01. Analyze medical and dental terminology.																											
MD01.01 Describe medical root words.	✓	X	X		X									X	X	X	X	X	X	X	X	X	X	X	X	X	X
MD1.02 Analyze words commonly used in medical/dental care.	✓	X	X			X								X	X	X	X	X	X	X	X	X	X	X	X	X	X
B. COMMUNICATIONS																											
MD02. Apply interpersonal communication skills.																											
MD02.01 Interpret elements of verbal and non-verbal communication.	✓		X	X	X	X	X	X	X		X	X	X		X	X		X	X	X	X	X	X	X	X	X	X
MD02.02 Describe communication barriers.	✓		X	X	X	X	X		X				X		X	X				X	X	X		X	X	X	X
MD02.03 Apply interpersonal communication skills.	✓		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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	
C. BODY SYSTEMS																											
MD03. Analyze the relationship of tissues, organs, and body systems.																											
MD03.01 Identify the structural units of the body.	✓	X								X			X	X	X			X	X	X			X	X	X		
MD03.02 Analyze body tissues and membranes.	✓	X																X				X	X				
D. INTEGUMENTARY SYSTEM																											
MD04. Analyze the anatomy and physiology of the skin.																											
MD04.01 Describe the structure of the skin.	✓	X																X					X	X	X		
MD04.02 Analyze the function of the skin.	✓	X											X					X					X	X	X		
MD04.03 Analyze characteristics and treatment of common skin disorders.	✓	X																									

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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
E. SKELETAL SYSTEM																										
MD05. Analyze the anatomy and physiology of the skeleton.																										
MD05.01 Describe the structure of the bones.	✓	X								X			X					X	X						X	
MD05.02 Analyze the function of the skeletal system.	✓	X								X			X					X	X						X	
MD05.03 Analyze characteristics and treatment of common skeletal disorders.	✓	X								X			X	X											X	
F. MUSCULAR SYSTEM																										
MD06. Analyze the anatomy and physiology of the muscles.																										
MD06.01 Describe the structure of the muscles.	✓	X								X			X									X			X	
MD06.02 Analyze the function of the muscular system.	✓	X								X			X									X			X	
MD06.03 Analyze characteristics and treatment of common muscle disorders.	✓	X								X				X											X	

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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
G. HEMATOLOGY																										
MD07. Analyze the anatomy and physiology of the blood.																										
MD07.01 Describe the structure of the blood.	✓	X								X			X	X	X			X					X		X	
MD07.02 Analyze the function of the blood.	✓	X								X			X	X	X			X					X		X	
MD07.03 Analyze characteristics and treatment of common blood disorders.	✓	X								X			X	X												
H. CIRCULATORY SYSTEM																										
MD08. Analyze the anatomy and physiology of the circulatory system.																										
MD08.01 Describe the structure of the circulatory system.	✓	X											X	X	X		X	X							X	
MD08.02 Analyze the function of the circulatory system.	✓	X											X	X	X		X	X							X	
MD08.03 Analyze characteristics of circulation and the blood vessels.	✓	X											X	X	X		X								X	
MD08.04 Analyze characteristics and treatment of common cardiac and circulatory disorders.	✓	X											X	X			X								X	

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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. LYMPHATIC SYSTEM AND IMMUNITY																														
MD09. Analyze the anatomy and physiology of the lymphatic system.																														
MD09.01 Describe the structure of the lymphatic system.	✓	X																												
MD09.02 Analyze the function of the lymphatic system.	✓	X																												
MD09.03 Analyze characteristics and treatment of common lymphatic disorders.	✓	X																												
MD09.04 Apply standard precautions.	✓	X																												
J. RESPIRATORY SYSTEM																														
MD10. Analyze the anatomy and physiology of the respiratory system.																														
MD10.01 Describe the structure of the respiratory system.	✓	X									X																X	X		
MD10.02 Analyze the function of the respiratory system.	✓	X									X																X	X		
MD10.03 Analyze characteristics and treatment of common respiratory disorders.	✓	X									X																X			

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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
K. NERVOUS SYSTEM																										
MD11. Analyze the anatomy and physiology of the nervous system.																										
MD11.01 Describe the structure of the brain, spinal cord and nerves.	✓	X								X		X										X				
MD11.02 Analyze the function of the nervous system.	✓	X								X		X										X				
MD11.03 Analyze characteristics and treatment of common nervous system disorders.	✓	X								X			X					X								
L. SENSORY SYSTEM																										
MD12. Analyze the anatomy and physiology of the special senses.																										
MD12.01 Describe the structure of the eye.	✓	X																				X				
MD12.02 Analyze the function of the eye.	✓	X																				X				
MD12.03 Describe the structure and function of the ear, nose and tongue.	✓	X	X									X											X			
MD12.04 Analyze the function of the ear, nose and tongue.	✓	X	X									X											X			

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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	
MD12.05 Analyze characteristics and treatment of common sensory disorders.	✓	X																				X					
M. DIGESTIVE SYSTEM																											
MD13. Analyze the anatomy and physiology of the digestive system.																											
MD13.01 Describe the structure of the digestive system.	✓	X								X								X	X					X			
MD13.02 Analyze the function of the digestive system.	✓	X								X								X	X					X			
MD13.03 Analyze characteristics and treatment of common digestive disorders.	✓	X								X													X				
N. NUTRITION																											
MD14. Analyze nutritional factors that relate to body structure and function.																											
MD14.01 Analyze the function of nutrients.	✓									X	X	X	X	X							X			X	X	X	
MD14.02 Analyze dietary guidelines.	✓			X						X	X	X	X	X							X		X	X	X	X	
MD14.03 Identify characteristics and treatment of common eating disorders.	✓	X								X				X	X									X			

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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	
O. URINARY SYSTEM																											
MD15. Analyze the anatomy and physiology of the urinary system.																											
MD15.01 Describe the structure of the urinary system.	✓	X														X	X										
MD15.02 Analyze the function of the urinary system.	✓	X														X	X										
MD15.03 Analyze characteristics and treatment of common urinary disorders.	✓	X																									
P. ENDOCRINE SYSTEM																											
MD16. Analyze the anatomy and physiology of the endocrine system.																											
MD16.01 Describe the structure of the endocrine system.	✓	X																X									
MD16.02 Analyze the function of the endocrine system.	✓	X																X									
MD16.03 Analyze characteristics and treatment of common endocrine disorders.	✓	X																									

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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
Q. REPRODUCTIVE SYSTEM.																										
MD17. Analyze the anatomy and physiology of the reproductive system.																										
MD17.01 Describe the structure of the male reproductive system.	✓	X																								X
MD17.02 Analyze the function of the male reproductive system.	✓	X																								X
MD17.03 Describe the structure of the female reproductive system.	✓	X																								X
MD17.04 Analyze the function of the female reproductive system.	✓	X																								X
MD17.05 Analyze characteristics and treatment of common reproductive disorders.	✓	X																								X
R. HEALTH CARE PROFESSIONS																										
MD18. Analyze the health care professions.																										
MD18.01 Analyze medical/health professions and related employment opportunities.	✓		X	X	X	X	X		X				X	X	X	X	X	X	X	X	X	X	X	X	X	X
MD18.02 Perform mathematical conversions common to the medical/health professions.	✓												X	X	X	X			X		X	X		X	X	

North Carolina VoCATS Health Occupations Education 7221 Medical Sciences 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	
1H18.03 Develop a long-term personal career development plan.	✓		X		X	X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S. MEDICAL SCIENCE CASE STUDIES																											
MD19. Apply concepts of anatomy and physiology to problem-based learning scenarios.																											

North Carolina VoCATS Health Occupations Education 7222 Medical Sciences II	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
A. PROFESSIONAL DEVELOPMENT																									
MS201.00 Apply employability skills.																									
MS201.01 Summarize professional attributes.	✓	X	X	X	X	X	X	X			X	X		X	X			X	X	X	X		X	X	X
MS201.02 Demonstrates employment strategies.	✓	X	X	X	X	X	X	X						X	X			X	X	X			X	X	X
MS201.03 Communicate effectively in a clinical setting.	✓	X	X	X	X	X	X	X			X	X		X	X			X	X	X	X		X	X	X
MS202.00 Differentiate between legal and ethical issues impacting health care.																									
MS202.01 Analyze legal responsibilities, limitations, and implications of actions	✓	X		X	X	X	X				X	X	X	X			X	X	X	X	X		X	X	X
MS202.02 Contrast personal and professional ethics.	✓	X		X	X	X	X	X		X	X	X	X	X			X	X		X		X	X	X	X
B. SYSTEMS																									
MS203.00 Analyze health care delivery systems.																									
MS203.01 Differentiate various facilities and organizations.	✓			X		X	X	X					X								X				

North Carolina VoCATS Health Occupations Education 7222 Medical Sciences II	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	
MS203.02 Explore the accessibility and financial issues of health care.	✓			X		X	X	X					X								X						
MS204.00 Investigate systems changes.																											
MS204.01 Review trends in health care.	✓			X		X	X			X		X									X						
MS204.02 Critique alternative medical modalities.	✓			X		X				X									X								
C. SAFETY																											
MS205.00 Apply infection control measures in the health care setting.																											
MS205.01 Analyze the principles of infection control.	✓							X					X	X	X	X		X	X	X	X	X	X	X	X	X	
MS205.02 Maintain sterile technique and isolation.	✓							X					X	X	X	X		X	X	X	X	X	X	X	X	X	
MS206.00 Utilize workplace safety practices.																											
MS206.01 Apply body mechanics and client safety measures.	✓					X	X	X			X		X					X	X	X	X	X	X	X	X	X	
MS206.02 Apply fire safety practices.	✓							X					X		X												

North Carolina VoCATS Health Occupations Education 7222 Medical Sciences II	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	
MS207.00 Administer emergency care.																											
MS207.01 Acquire CPR certification.	✓										X						X										
MS207.02 Demonstrate first aid skills.	✓									X						X											X
D. ASSESSMENT AND DIAGNOSTIC PRACTICES																											
MS208.00 Analyze life stages.																											
MS208.01 Explore normal growth and development.	✓	X		X						X	X	X	X	X		X	X				X	X	X	X	X	X	X
MS208.02 Investigate diseases and disorders related to specific life stages.	✓	X		X		X			X			X	X	X		X	X	X			X					X	
MS209.00 Monitor client status.																											
MS209.01 Assist with client physical assessment.	✓	X	X	X		X			X	X	X		X		X	X		X	X	X	X	X	X	X	X	X	
MS209.02 Demonstrate recording and reporting.	✓		X			X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

North Carolina VoCATS Health Occupations Education 7222 Medical Sciences II	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. MAINTENANCE PRACTICES																										
MS210.00 Evaluate the role of nutrition in health and disease.																										
MS210.01 Analyze basic nutrition.	✓		X						X			X	X	X		X				X				X	X	X
MS210.02 Interpret various factors that influence nutrition.	✓		X						X			X	X	X		X				X				X	X	X
MS210.03 Discuss the relationship of specific medical nutritional therapy.	✓		X						X			X	X	X		X				X				X	X	X
MS211.00 Interpret the importance of preventive health care practices.																										
MS211.01 Explain healthy behavior patterns.	✓		X						X			X	X	X		X	X			X	X		X	X	X	X
MS211.02 Determine the value of health screenings and immunizations.	✓		X				X		X										X	X		X	X		X	
F. SPECIALTY																										
MS212.00 Develop skills related to a specific career goal in a clinical setting.																										