Colorado CTE Health Science Middle School Scope and Sequence

Course Name	Introduction to Healthcare for Middle School
Course Description	This is the first course of three middle school CTE courses that introduce students to different areas of health-related careers. In this first course, students will learn about the history, structure, and legal issues of health-related careers and the healthcare system.
Note:	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all competencies are covered.
Schedule:	This is a 6-9 week course to be utilized in a middle school exploratory program. 60% of instruction time should be geared toward meeting the course competencies in this scope document. The remaining 40% of the instructional time allows for guest speakers, student presentations, field trips, remediation, or other content topics.

All courses taught in an approved CTE program must include Essential Skills embedded into the course content. The Essential Skills Framework for this course can be found at
https://www.cde.state.co.us/standardsandinstruction/essentialskills
Additional resource: National Health Science Standards

Instructional Unit Topic	CTE or Academic Standard Alignment	Competency / Outcomes
History and Trends of HealthCare	NHSS 3.1.4 Colorado SS. Standard 4: Civics	1. Examine early beliefs about the causes of disease and treatment and current beliefs about disease and treatment 2. Identify major events in the history of healthcare 3. Explore historical individuals 4. Investigate current trends or changes in health care.
Health Care Systems	NHSS 3.1.1 Colorado SS.Standard 4: Civics	1. Describe types of private healthcare facilities 2. Analyze government health services agencies and the services offered 3. Describe services offered by voluntary or nonprofit agencies. 4. Compare basic principles of different health insurance plans 5. Explain the purpose of organizational structures in health care facilities

Health care team		1. Member roles and responsibilities 2. Characteristics of effective teams 3. Methods for building positive team relationships 4. Attributes and attitudes of effective leaders 5. Techniques for managing team conflict
Legal and Ethical Responsibilities	NHSS: 4.11, 4.12, 6.22	1. Define the following: malpractice; negligence, assault and battery, invasion of privacy, false imprisonment, abuse, and defamation. 2. Describe types of consent health care. 3. Define *privileged communications.* 4. State the legal regulations that apply to health care records 5. Define HIPPA and explain how it provides confidentiality for health care information 6. Basic rules of ethics for healthcare personnel 7. Rights of the patient who is receiving health care 8. Justify professional standards by explaining how they help meet legal/ethical requirements 9. Define, pronounce, and spell all key terms

Course Name	Introduction to the Human Body for Middle School
Course Description	This is the second course of three middle school CTE courses that introduce students to different areas of health-related careers. In this second course, students will learn about the basic body systems/structures, entry-level skills, and how health care changes as the body ages.
Note:	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all competencies are covered.
Schedule:	This is a 6-9 week course to be utilized in a middle school exploratory program. 60% of instruction time should be geared toward meeting the course competencies in this scope document. The remaining 40% of the instructional time allows for guest speakers, student presentations, field trips, remediation, or other content topics.

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Additional resource: National Health Science Standards

Instructional Unit Topic	CTE or Academic Standard Alignment	Competency / Outcomes
Medical Terminology	NHSS: 2.21, 2.22	1. Identify basic medical abbreviations selected from a standard list 2. Define prefixes, suffixes, and word roots/Combining forms 3. Define, pronounce, and spell all key terms
Anatomy and Physiology	NHSS: 1.11, 1.13, 1.21	1. Apply the appropriate terminology to major organs and systems of the human body 2. Directional terms 3. Identify the major functions of each body system 4. Describe basic diseases affecting each of the body systems

Vital Signs	NHSS: 7.11, 7.12, 7.21, 7.41, 7.42, 10.12,	1. List the five main vital signs and normal ranges 2. Convert Fahrenheit to Celsius and vice versa

First Aid	NHSS: 7.11, 7.12, 7.21, 7.41, 7.42, 10.12,	1. Opportunity to obtain industry certification level of HeartSaver CPR AED from American Heart
		2. Describe first aid for
		    a. Bleeding and wounds
		    b. Shock
		    c. Poisoning
		    d. Burns
		    e. Heat exposure
		    f. Cold exposure
		    g. Bone and joint injuries, including fractures
		    h. Specific injuries to the eyes, head, nose, ears, chest, abdomen, and genital organs.
		    i. Sudden illness including heart attack, stroke, fainting, convulsions, and diabetic reactions
		    j. Apply dressings and bandages, observing all safety precautions and using the circular, spiral, figure-eight, and recurrent or finger wrap

Human Growth and Development and Healthcare across the lifespan		1. Identify physical, mental, emotional, and social developments that occur during each of the life stages 2. Recognize ways that life stages affect an individual's needs

Course Name	Introduction to Healthcare Careers For Middle School
Course Description	This is the third course of three middle school CTE courses that introduce students to different areas of health-related careers. In this third course, students will learn about the basic personal and professional qualities needed to be a good member of a healthcare team and explore the many opportunities for careers in the health-related field.
Note:	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all competencies are covered.
Schedule:	This is a 6-9 week course to be utilized in a middle school exploratory program. 60% of instruction time should be geared toward meeting the course competencies in this scope document. The remaining 40% of the instructional time allows for guest speakers, student presentations, field trips, remediation, or other content topics.

All courses taught in an approved CTE program must include Essential Skills embedded into the course content. The Essential Skills Framework for this course can be found at
https://www.cde.state.co.us/standardsandinstruction/essentialskills
Additional resource: National Health Science Standards

Instructional Unit Topic	CTE or Academic Standard Alignment	Competency / Outcomes
Personal and Professional Qualities of a Health Care Worker	NHSS: 4.11, 6.21, 2.11, 2.12, 2.13, 2.14, 2.15, 2.16, 8.11, 8.12, 8.21, 8.22, 8.23	1. Explain how diet, rest, exercise, good posture, and avoiding tobacco, alcohol, and drugs contribute to good health 2. Standards of professional appearance 3. Characteristic profiles of a healthcare worker that include personal/professional traits or attitudes 4. Importance of the communication process 5. Understand the concepts of teamwork. 6. Basic characteristics of leaders. 7. Effects of stress within the healthcare field. 8. Time management, problem-solving, and goal-setting...

Careers in Health Care	NHSS 4.3, 4.3.1, 4.3.2	3. Explore Career Ladders: Educational requirements for associate's, bachelor's, and master's degrees 4. Understand Certification, registration, and licensure 5. Describe different healthcare careers by including a definition of the career, duties, educational requirements, and employment opportunities
Computers and Technology in Health Care	NHSS: 3.1.3	1. Describe computer and technology applications currently being used in today's health care. 2. Illustrate how computers and technology have improved health care communication Identify precautions that must be taken to maintain the confidentiality of patients
Health Care Career Skills Exploration And Preparation	NHSS 3.1.4	6. Identify job-keeping skills 7. Write a cover letter containing all required information and using the correct form for letters 8. Prepare a resume containing all necessary information and meeting standards for neatness and correctness 9. Complete a job application form that meets standards of neatness and accuracy 10. Demonstrate how to participate in a job interview, including wearing the correct dress and meeting standards 11. Calculate an accurate budget for one month, accounting for fixed expenses and variable expenses without exceeding net monthly income 12. Research the pathway to a career of interest 13. Explore skills necessary in a variety of healthcare careers. 14. Describe the difference between various types of academic degrees and other credentials 15.