

CFISD Principles of Health Science Scope and Sequence

Course Description

This course is designed for students interested in medical and associated health careers. It gives an overview of the therapeutic, diagnostic, environmental, and informational systems of the healthcare industry. Topics include career requirements, medical history, trends in financing health care, ethical and legal responsibilities, human anatomy and physiology as related to the healthcare profession, client care, safety, first aid, and CPR. This course prepares the student for the transition to clinical and/or work-based experiences available in the advanced health science courses. **(1 credit)**

- This course satisfies the health credit required for graduation.
- Grade level 9-11
- Lab supplies or fees may be required.

TEKS: <https://tea.texas.gov/sites/default/files/ch127i.pdf>

OR <https://tea.texas.gov/academics/curriculum-standards/teks/texas-essential-knowledge-and-skills>

Cluster: Health Science

Endorsement: Public Services

- Meets advanced course requirement (Y/N): N
- Meets foundation requirement for math, science, fine arts, English (Y/N-area): N

Industry Certification/Credentials: American Heart Association - Heartsaver CPR/AED and First Aid

1st Semester:	Estimated Days
A. History of Medicine <ul style="list-style-type: none"> ○ Research and Analysis in Health Science TEKS c (2) E & M 	10 days
B. Cultural Diversity <ul style="list-style-type: none"> ○ Research and Analysis in Health Science TEKS c (2) P, Q ○ Individual Rights & Choices TEKS c (10) C & E 	5 days
C. Personal Qualities of a Healthcare Worker <ul style="list-style-type: none"> ○ Employability Skills TEKS c (1) C 	4 days
D. Communication Skills in Health Science <ul style="list-style-type: none"> ○ Communication and Teamwork TEKS c (3) A, b; ○ Types of communication TEKS c (3) A ○ Demonstrate effective communication skills TEKS c (3) B 	2-3 days
E. Leadership Skills and Teamwork <ul style="list-style-type: none"> ○ Traits of Leader TEKS c (4) A, B, C; c(2)(F) ○ Conflict resolution TEKS c (3) C ○ Teamwork TEKS c (1) B 	2-3 days
F. Research and Analysis in Health Science <ul style="list-style-type: none"> ○ Healthcare Systems 	15 days

<ul style="list-style-type: none"> i. Hospital Organizational Structure TEKS c (8) A; (12) A ii. Healthcare Facilities iii. Government Agencies TEKS c (2) O; c (8) B; c (11) A iv. Insurance <ul style="list-style-type: none"> 1. Review documentation related to rights and choices TEKS (2)(10)(D) v. Cost Containment TEKS c (2) N <p>G. Ethics and Legal Responsibilities (Employability Skills)</p> <ul style="list-style-type: none"> ○ Legal and Ethics in healthcare TEKS c (9) A-E ○ Rights and Choices of the Individual TEKS c (10) A & D <p>H. Health Science Career Pathways & Employability Skills</p> <ul style="list-style-type: none"> ○ Careers TEKS c (2)(E); c (5) A, B; (c)(7)(B) ○ Educational Requirements and Degrees TEKS c (6) <p>I. Employability Skills</p> <ul style="list-style-type: none"> ○ Business and Accounting TEKS c (1) <ul style="list-style-type: none"> i. Phone etiquette ii. Office Management TEKS (c)(1)(C) iii. Money Management/Banking TEKS (c)(2)(B) <ul style="list-style-type: none"> 1. Check Writing 2. Budgeting 3. Deposit ○ World of Work TEKS c (7) <ul style="list-style-type: none"> i. Job Search/Job Application ii. Resume/Cover Letter <ul style="list-style-type: none"> 1. Organize, compile, and write ideas into reports and summaries (c)(2)(D) iii. Job Interview iv. Email etiquette/Thank you letter v. Soft Skills <ul style="list-style-type: none"> 1. Express ideas in a clear, concise, and effective manner (c)(1)(A) 	<p>9-10 days</p> <p>3-4 days</p> <p>15 days</p>
<p>End of semester testing</p>	
<p>2nd Semester</p> <p>1. Medical Math</p> <ul style="list-style-type: none"> ○ Conversions TEKS (c) (2) (A) & (B) ○ Roman numerals ○ Military time <p>2. Wellness Principles in Health Science</p> <ul style="list-style-type: none"> ○ Directional Terms <ul style="list-style-type: none"> i. Body Directions, Planes, and Cavities TEKS (c) (3) (D) <p>3. Understanding Safety Requirements in Health Science & Wellness Principles in Health Science</p> <ul style="list-style-type: none"> ○ Safety <ul style="list-style-type: none"> i. Skeletal and Muscular Systems ii. Body Mechanics TEKS (c)(2)(H) iii. Range of Motion iv. Fire, Food, and Environmental Safety TEKS (c)(11)(B) & (C) ○ Computers and Technology in Health Care <ul style="list-style-type: none"> i. Technology Failure and Reporting of Equipment TEKS (c)(12)(B) & (C) <p>4. Individual Rights and Choices</p> <ul style="list-style-type: none"> ○ Integumentary System ○ Infection Control TEKS(c) (10) (B) <p>5. Leadership Skills and Teamwork</p> <ul style="list-style-type: none"> ○ Cardiovascular and Respiratory Systems 	<p>4-5 days</p> <p>5-6 days</p> <p>4-5 days</p> <p>3-4 days</p> <p>1-3 day</p> <p>5-7 days</p> <p>4-5 days</p>

<ul style="list-style-type: none"> ○ Vital Signs TEKS (c) (3) (D) i. Data and Measurements ○ First Aid/CPR TEKS (c)(11)(B) i. AHA First Aid / CPR Certification 	10 days
<p>6. Wellness Principles in Health Science</p> <ul style="list-style-type: none"> ○ Human Growth and Development (reproductive/pregnancy) TEKS (c)(2)(I-L) ○ Death and Dying TEKS (c)(2)(I-L) 	8 days
<p>7. Individual Rights and Choices & Wellness Principles in Health Science</p> <ul style="list-style-type: none"> ○ Digestive System ○ Nutrition TEKS (c)(10)(B); TEKS (c)(2) (G & K) ○ Wellness Principles in Health Science 	2-3 days 4-5 days
<p><i>*Throughout semester:</i> <i>Medical Terminology and Abbreviations, Technology, Body Systems</i> - <i>Accurately interpret, transcribe, and communicate medical vocabulary using appropriate technology TEKS (c)(3)(D)</i></p>	
<p>End of semester testing</p>	

Primary Instructional Materials:

- *Diversified Health Occupations* 8th Edition by Simmers, Simmers - Nartker, Simmers - Kobelak : Cengage Learning 2014. (978-1-1-13369-361-1)

Supplemental Instructional Material:

- Health Center 21
 - <https://learn.aeseducation.com/>
- American Heart Association
 - Heartsaver® CPR AED Student Workbook
- <https://www.txcte.org/resource/health-science-career-cluster?binder=190376&delta=7>