KCKPS CTE CURRICULUM PACING GUIDE*

RESEARCH & CLINICAL SKILLS HC 2

KSDE Course Code		KSDE Course Name	Health Care Research & Clinical Skills B
CIP Code	51.9999	KSDE Pathway	Health Science
Infinite Campus Course Numbers			
Prerequisites			
Courses That Follow			
Buildings Offered	Harmon, Washington, Wyandotte		

KCKPS Course Description

An in-depth look at a specific topic, area of research, occupation/career, technique or skill in the health science area, which has been selected by the teacher of record for study. Students may further explore the special topic by collaborating, observing, and participating in approved activities with local and regional health care professionals to offer Professional Learning Experiences (PLE).

Kansas Department of Education Course Competencies

Link to KSDE Competencies page: To search for up-to-date course competencies: use “command F “and type in the title of the course.

Common District Summative Assessment

Description: This course is designed to create an awareness of career possibilities in health care and inform students of the educational options available for health science and health technology programs. Instruction includes beginning anatomy and physiology, medical terminology, medical ethics, diseases, and disorders. The course prepares students for the Medical Anatomy/Physiology course and/or for a variety of health technology programs.
Standards: https://www.precisionexams.com/kansas/files/standards-pdfs/ks_700.pdf

Market Value Asset

CPR Certification

PACING GUIDE AT A GLANCE

Unit	Unit Name	Length
1	CPR	4- 90 minute blocks
2	Health Care Settings	4 weeks
3	Nursing as a Career and Community Health	6 weeks
4	Clinical Laboratory Science and Laboratory Research	6 weeks

KSDE COURSE COMPETENCIES

Competency	Unit Taught
Benchmark 1: Introduction	
1.1 Understand the scope of the selected special topic to be taught.	1,2,3,4
1.2 Identify new and emerging areas	3, 4
1.3 Identify business and industry in the region that are related	3, 4
1.4 Identify common technologies used	1, 2, 3, 4
1.5 Identify the core academics needed to succeed in this area	1, 2, 3, 4
1.6 Identify post-secondary programs that connect or relate to this area	2, 3, 4
1.7 Research and discuss possible projects related to this area	4
Benchmark 2: Academics	
2.1 Demonstrate a wide variety of measuring and common techniques (including but not limited to:solution calculations, data analysis, and graphing)	1
2.2 Demonstrate writing and reading skills associated with the topic area (including but not limited to: note booking, research, recording, and findings)	2,3,4

2.3 Use the scientific method to conduct a valid experiment and compose a thorough statement of results (including evidence, explanations error analysis and practical applications).	3,4
2.4 Identify common calculations and formulas used	2, 3, 4
Benchmark 3: Lab Skills	
3.1 Demonstrate competence in any needed lab skills	2, 3, 4
3.2 Describe and demonstrate appropriate preparation techniques	1,2,3,4
3.3 Design and demonstrate techniques learned in project-based learning	3, 4
Benchmark 4.1: Careers	
4.1 Identify personal traits and attitudes desirable in a career ready member of a health team. • Acceptance of criticism • Competence • Dependability • Discretion • Empathy • Enthusiasm • Honesty • Initiative • Integrity • Patience • Positive Attitude • Responsibility • Self-motivation • Tact • Team player • Willingness to learn	1, 2, 3,4
4.2 Summarize professional standards as they apply to hygiene, dress, language, confidentiality and behavior	2,3, 4,
4.3 Apply employability skills in healthcare. • Chain of command • Communication Skills • Decision making • Flexible • Organization • Problem Solving • Scope of practice • Time Management • Work Ethic	2, 3,4
4.4 Research levels of education, credentialing requirements, and employment trends in health professions related to selected topic	2, 3,4
4.5 Distinguish differences among careers within a health science pathway. • Biotechnology research and development • Diagnostic services • Health informatics • Support services • Therapeutic services	2, 3, 4
4.6 Develop components of a personal portfolio. • Letter of introduction • Resume • Sample Projects • Writing Sample • Work-based Learning Documentation • Oral Report • Community Service / Service Learning • Credentials • Technology Skills • Leadership Examples	2, 3, 4
4.7 Identify strategies for pursuing employment. • Social media • Personal networking	3, 4
Benchmark 5.1: Personal Safety	
5.1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC)	2

regulations.	
5.2 Demonstrate principles of body mechanics during patient care. • Ambulating • Lifting • Positioning	1, 2, 3,4
5.3 Demonstrate and apply the use of personal protective equipment (PPE).	1, 2, 3,4
5.4 Apply safety techniques in the work environment. • Ergonomics • Safe operation of equipment • Patient/client/employee safety measures	2, 3, 4
5.5 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]).	2, 3, 4
5.6 Comply with safety signs, symbols, and labels.	2, 3,4
5.7 Practice fire safety in a healthcare setting.	2, 3, 4
5.8 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols).	1, 2, 3,4

UNIT 1

CPR 4 90-minute blocks

Unit Overview

Basic Life Support and cardiopulmonary resuscitation is geared towards students, who upon successful completion of the course, will receive a course completion card, valid for two years.

Unit Competencies

1.1 Understand the scope of the selected special topic to be taught.
1.4 Identify common technologies used
1.5 Identify the core academics needed to succeed in this area
2.1 Demonstrate a wide variety of measuring and common techniques (including but not limited to:solution calculations, data analysis, and graphing)
3.2 Describe and demonstrate appropriate preparation techniques
4.1 Identify personal traits and attitudes desirable in a career ready member of a health team.
• Acceptance of criticism • Competence • Dependability • Discretion • Empathy • Enthusiasm • Honesty • Initiative • Integrity • Patience • Positive Attitude • Responsibility • Self-motivation • Tact • Team player • Willingness to learn
5.2 Demonstrate principles of body mechanics during patient care.
• Ambulating • Lifting • Positioning
5.8 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols).

Unit Resources

Primary Resources	Supplemental Resources
• Simmers DHO Health Science, Cengage	• American Heart Association https://www.studentcpr.com/en/training_video/adult-cpr-lay-rescuer-community

Unit Vocabulary

CPR, Sphygmomanometer, Stethoscope, cardiovascular, compressions, pulse, expel, obstruction, AED, BPM, chole, circulation, conscious, EMT

UNIT 2

Health Care Settings 4 weeks

Unit Overview

Students will learn about health professions in the field that may be a possible career option. Students will also learn how to audit a hospital room.

Unit Competencies

1.1 Understand the scope of the selected special topic to be taught.
1.4 Identify common technologies used
1.5 Identify the core academics needed to succeed in this area
1.6 Identify post-secondary programs that connect or relate to this area
2.2 Demonstrate writing and reading skills associated with the topic area (including but not limited to: note booking, research, recording, and findings)
2.4 Identify common calculations and formulas used
3.1 Demonstrate competence in any needed lab skills
3.2 Describe and demonstrate appropriate preparation techniques
4.1 Identify personal traits and attitudes desirable in a career ready member of a health team.
• Acceptance of criticism • Competence • Dependability • Discretion • Empathy • Enthusiasm • Honesty • Initiative • Integrity • Patience • Positive Attitude • Responsibility • Self-motivation • Tact • Team player • Willingness to learn
4.2 Summarize professional standards as they apply to hygiene, dress, language, confidentiality and behavior
4.3 Apply employability skills in healthcare.
• Chain of command • Communication Skills • Decision making • Flexible • Organization • Problem Solving • Scope of practice • Time Management • Work Ethic
4.4 Research levels of education, credentialing requirements, and employment trends in health professions related to selected topic
4.5 Distinguish differences among careers within a health science pathway.
• Biotechnology research and development • Diagnostic services • Health informatics • Support services • Therapeutic services
4.6 Develop components of a personal portfolio.
• Letter of introduction • Resume • Sample Projects • Writing Sample • Work-based Learning Documentation • Oral Report • Community Service / Service Learning • Credentials • Technology Skills • Leadership Examples
5.1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations.
5.2 Demonstrate principles of body mechanics during patient care.
• Ambulating • Lifting • Positioning
5.3 Demonstrate and apply the use of personal protective equipment (PPE).
5.4 Apply safety techniques in the work environment.
• Ergonomics • Safe operation of equipment • Patient/client/employee safety measures

5.5 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]).
5.6 Comply with safety signs, symbols, and labels.
5.7 Practice fire safety in a healthcare setting.
5.8 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols).

Unit Resources

Primary Resources	Supplemental Resources
● Simmers DHO Health Science, Cengage	● Hidden Careers in health Care- T Score, Jeff Novorr ● HIPPA- Terri Thompson, Robert Spaniol ● Hospital-panel HIPAA, tour, handwashing (KU Med Center, Providence)

Unit Vocabulary

HIPPA, OSHA, CDC, Ambulatory, hospital, nursing home, convalescent,

UNIT 3

Nursing as a Career and Community Health 6 weeks

Unit Overview

Unit Competencies

1.1 Understand the scope of the selected special topic to be taught.
1.2 Identify new and emerging areas
1.3 Identify business and industry in the region that are related
1.4 Identify common technologies used
1.5 Identify the core academics needed to succeed in this area
1.6 Identify post-secondary programs that connect or relate to this area
2.2 Demonstrate writing and reading skills associated with the topic area (including but not limited to: note booking, research, recording, and findings)
2.3 Use the scientific method to conduct a valid experiment and compose a thorough statement of results (including evidence, explanations error analysis and practical applications).
2.4 Identify common calculations and formulas used
3.1 Demonstrate competence in any needed lab skills
3.2 Describe and demonstrate appropriate preparation techniques
3.3 Design and demonstrate techniques learned in project-based learning
4.1 Identify personal traits and attitudes desirable in a career ready member of a health team.
• Acceptance of criticism • Competence • Dependability • Discretion • Empathy • Enthusiasm • Honesty • Initiative • Integrity • Patience • Positive Attitude • Responsibility • Self-motivation • Tact • Team player • Willingness to learn
4.2 Summarize professional standards as they apply to hygiene, dress, language, confidentiality and behavior
4.3 Apply employability skills in healthcare.
• Chain of command • Communication Skills • Decision making • Flexible • Organization • Problem Solving • Scope of practice • Time Management • Work Ethic
4.4 Research levels of education, credentialing requirements, and employment trends in health professions related to selected topic
4.5 Distinguish differences among careers within a health science pathway.
• Biotechnology research and development • Diagnostic services • Health informatics • Support services • Therapeutic services
4.6 Develop components of a personal portfolio.
• Letter of introduction • Resume • Sample Projects • Writing Sample • Work-based Learning Documentation • Oral Report • Community Service / Service Learning • Credentials • Technology Skills • Leadership Examples
4.7 Identify strategies for pursuing employment.
• Social media • Personal networking

5.2 Demonstrate principles of body mechanics during patient care.
• Ambulating • Lifting • Positioning
5.3 Demonstrate and apply the use of personal protective equipment (PPE).
5.4 Apply safety techniques in the work environment.
• Ergonomics • Safe operation of equipment • Patient/client/employee safety measures
5.5 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]).
5.6 Comply with safety signs, symbols, and labels.
5.7 Practice fire safety in a healthcare setting.
5.8 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols).

Unit Resources

Primary Resources	Supplemental Resources
• Simmers DHO Health Science, Cengage	• WyCo_CHC_HeatReport_1228.pdf • https://docs.google.com/presentation/d/1tgs4PFA_QL28P4-D9P3XQ9qrCZCS5oRvLOoCziNTDa4/edit#slide=id.p • https://drive.google.com/open?id=0B22o2uq89-X6QjdNd1Y3bDZqcWs • Nursing- panel, in the community, stroke identification, midwifery

Unit Vocabulary

UNIT 4	
Clinical Laboratory Science and Laboratory Research	6 weeks

Unit Overview

Unit Competencies

1.1 Understand the scope of the selected special topic to be taught.
1.2 Identify new and emerging areas
1.3 Identify business and industry in the region that are related
1.4 Identify common technologies used
1.5 Identify the core academics needed to succeed in this area
1.6 Identify post-secondary programs that connect or relate to this area
1.7 Research and discuss possible projects related to this area
2.2 Demonstrate writing and reading skills associated with the topic area (including but not limited to: note booking, research, recording, and findings)
2.3 Use the scientific method to conduct a valid experiment and compose a thorough statement of results (including evidence, explanations error analysis and practical applications).
2.4 Identify common calculations and formulas used
3.1 Demonstrate competence in any needed lab skills
3.2 Describe and demonstrate appropriate preparation techniques
3.3 Design and demonstrate techniques learned in project-based learning
4.1 Identify personal traits and attitudes desirable in a career ready member of a health team.
• Acceptance of criticism • Competence • Dependability • Discretion • Empathy • Enthusiasm • Honesty • Initiative • Integrity • Patience • Positive Attitude • Responsibility • Self-motivation • Tact • Team player • Willingness to learn
4.2 Summarize professional standards as they apply to hygiene, dress, language, confidentiality and behavior
4.3 Apply employability skills in healthcare.
• Chain of command • Communication Skills • Decision making • Flexible • Organization • Problem Solving • Scope of practice • Time Management • Work Ethic
4.4 Research levels of education, credentialing requirements, and employment trends in health professions related to selected topic
4.5 Distinguish differences among careers within a health science pathway.
• Biotechnology research and development • Diagnostic services • Health informatics • Support services • Therapeutic services
4.6 Develop components of a personal portfolio.
• Letter of introduction • Resume • Sample Projects • Writing Sample • Work-based Learning Documentation • Oral Report • Community Service / Service Learning • Credentials • Technology Skills • Leadership Examples
4.7 Identify strategies for pursuing employment.

• Social media • Personal networking

5.2 Demonstrate principles of body mechanics during patient care.
• Ambulating • Lifting • Positioning

5.3 Demonstrate and apply the use of personal protective equipment (PPE).

5.4 Apply safety techniques in the work environment.
• Ergonomics • Safe operation of equipment • Patient/client/employee safety measures

5.5 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]).

5.6 Comply with safety signs, symbols, and labels.

5.7 Practice fire safety in a healthcare setting.

5.8 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols).

Unit Resources

Primary Resources	Supplemental Resources
• Simmers DHO Health Science, Cengage	• Clinical Lab Science 1, 2 at KU Med Center • Lab Research 1, 2, 3, 4 (With KU Med Center)

Unit Vocabulary