





Starting a New Patient Care Technician Pathway Program

Agenda

- Identify resources for building pathways (general, health science)
- Introduce hands-on resources
- Additional resources
- Q&A

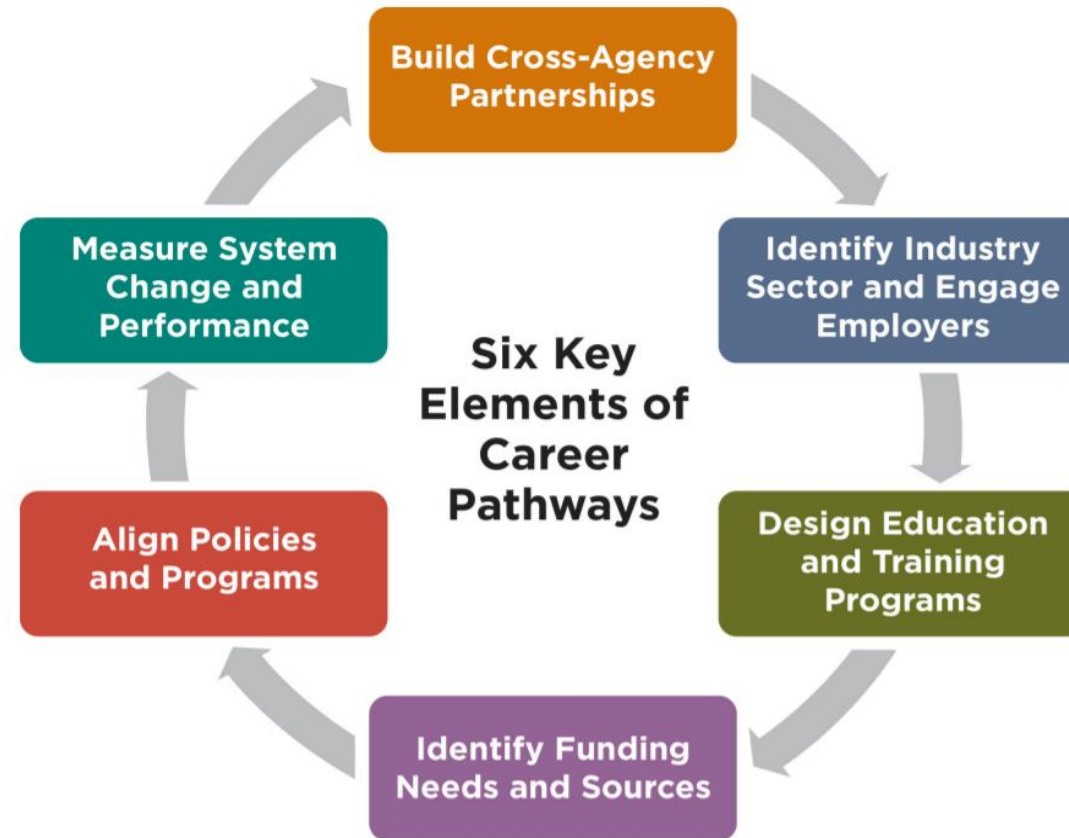


Job Nuances

	Nursing Assistant	PATIENT CARE TECHNICIAN/ASSISTANT	Medical Assistant
Certification	State	National	National
Main Responsibilities	Patient Care	Patient Care+++	Patient Care+++ and/or Administrative
Job Prospects	11%	?	29%
Salary	\$13.23	\$15.00	\$15.61
Education	4-12 weeks	2-7 months	1-2 years

Building a Career Pathway

Six Key Elements for Developing Career Pathways



<https://lincs.ed.gov/professional-development/resource-collections/profile-841>

Build an Advisory Council

Invite 5-10 industry professionals to participate in a health science advisory council

Meet several times per year

Focus on outcomes – what are employers looking for

Are you teaching the right things?

Form partnerships for field experience, job shadowing, guest speaker opportunities



Seek Industry-Recognized Certifications

Does your state dep. recommend a specific certification or testing agency?

Are your instructors licensed to teach PCT courses?

What are local employers looking for?

Is employment transferable?

What is the cost of certification or a specific credential?



Building a Health Science Pathway

Career Tech



State Leaders Connecting Learning to Work

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Career Clusters

The National Career Clusters® Framework provides a vital structure for organizing and delivering quality CTE programs through learning and comprehensive programs of study.



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[CTE In Your State](#)

[State Comparisons](#)

[Common Career Technical Core](#)

[Programs of Study](#)

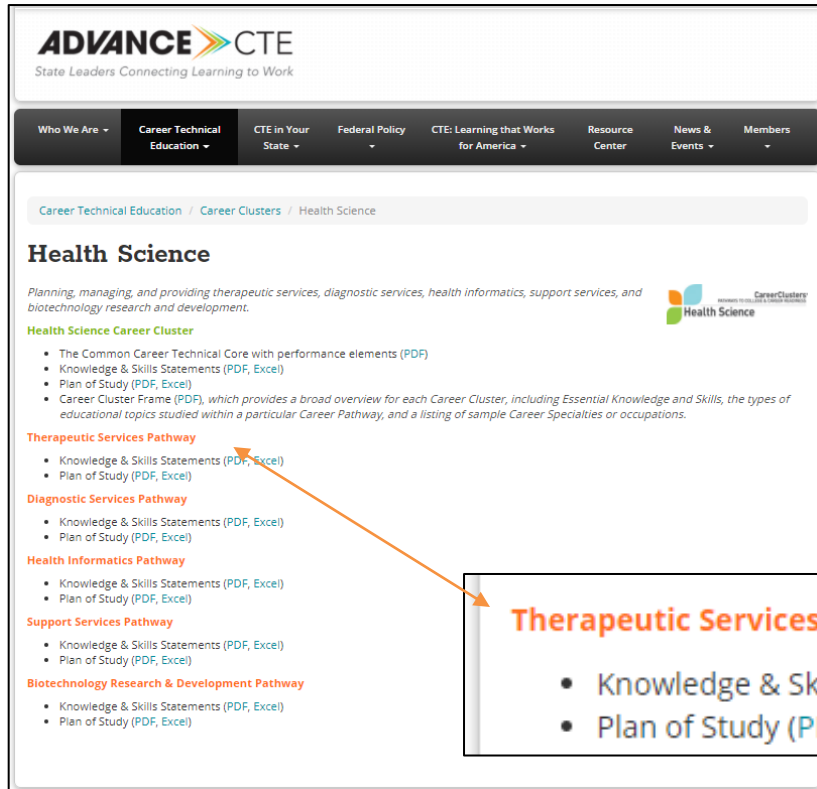
[Crosswalks](#)

[Advancing The National Career Clusters Framework](#)

Health Science Pathways

Sample Career Specialties/Occupations	Acupuncturist Anesthesiologist/Assistant Anesthesia Technologist/Technician Art/Music/Dance Therapist(s) Athletic Trainer Audiologist Certified Nursing Assistant Chiropractor Chiropractic Assistant Dental Assistant/Hygienist Dental Lab Technician Dietitian/Nutritionist Dosimetrist EMT/Paramedic Endodontist Exercise Physiologist Home Health Aide Kinesiotherapist Licensed Practical Nurse Massage Therapist Medical Assistant Mental Health Counselor Naturopathic Doctor Nurse Anesthetist Nurse Midwife Nurse Practitioner Occupational Therapist/Assistant Oral Surgeon Orientation/Mobility Specialist Orthodontist Orthotist Orthotist/Prosthetist/Technician Pedorthist Perfusionist Pharmacist Pharmacy Technician Physical Therapist/Assistant Physician (MD/DO) Physician Assistant Podiatrist Psychologist Psychiatrist Radiation Therapist Recreation Therapist Registered Nurse Rehabilitation Counselor Respiratory Therapist Speech-Language Therapist Surgical Technician Veterinarian Veterinarian Assistant/Technician Vision Rehabilitation Therapist Wellness Coach	Audiologist Blood Bank Technology Specialist Cardiovascular Technologist Clinical Lab Technician Clinical Laboratory/Technologist Computer Tomography (CT) Technologist Cytogenetic Technologist Cytotechnologist Dentist Diagnostic Medical Sonographer Electrocardiographic (ECG) Technician Electroneurodiagnostic Technologist Electronic Diagnostic (EEG) Technologist Exercise Physiologist Geneticist Geriatrician Histotechnician Histotechnologist Magnetic Resonance Technologist Mammographer Medical Technologist/ Clinical Laboratory Scientist Nuclear Medicine Technologist Optician Ophthalmologist Ophthalmic Assistant/Technologist Optometrist Pathologist Pathologists' Assistant Phlebotomist Polysomnographic Technologist Positron Emission Tomography (PET) Technologist Radiologic Technologist Radiologist Speech-Language Pathologist	Admitting Clerk Applied Researcher Compliance Technician Clinical Account Manager Clinical Account Technician Clinical Data Specialist Community Services Specialists Data Quality Manager Epidemiologist Ethicist Health Educator Health Information Mgmt. Administrator Health Information Mgmt. Technician Healthcare Access Manager Healthcare Administrator Healthcare Finance Informatician Information Privacy Officer Managed Care Contract Analyst Medical Coder Medical Historian Medical Illustrator Medical Information Technologist Medical Librarian Medical Transcriptionist Patient Account Manager Patient Account Technician Patient Advocate Patient Information Coordinator Project Manager Public Health Educator Quality Management Specialist Quality Data Analyst Research and Decision Support Specialist Reimbursement Specialist Risk Manager Unit Coordinator Utilization Manager Utilization Review Manager	Animal Behaviorist Biomedical/Clinical Engineer Biomedical/Clinical Technician Clinical Simulator Technician Central Service Manager Central Service Technician Community Health Worker Dietary Manager Dietetic Technician Environmental Health Advocate Environmental Health Practitioner Environmental Services/ Specialist Facilities Manager Food Safety Specialist Health Advocate Hospital Maintenance Engineer Industrial Hygienist Interpreter Marital, Couple, Family Counselor/Therapist Materials Manager Medical Health Counselor Mortician/ Funeral Director Nurse Educator Occupational Health Nurse Occupational Health & Safety Expert Social Worker Transport Technician	Biochemist Bioinformatics Scientist Biomedical Chemist Biomedical Manufacturing Technician Biostatistician Cancer Registrar Cell Biologist Clinical Data Management Specialist Clinical Pharmacologist Clinical Trials Monitor Clinical Trials Research Coordinator Crime Scene Investigator Diagnostic Molecular Scientist Forensic Biologist Forensic Chemist Forensic Odontologist Forensic Pathologist Genetic Counselor Geneticist-Lab Assistant Lab Technician Medical Editor/Writer Microbiologist Molecular Biologist Nurse Researcher Packaging Technician Patent Lawyer Pharmaceutical/Clinical Project Manager Pharmaceutical Sales Representative Pharmaceutical Scientist Pharmacokineticist Pharmacologist Product Safety Scientist Process Development Scientist Processing Technician Quality Assurance Technician Quality Control Technician Regulatory Affairs Specialist Research Assistant Research Scientist Toxicologist
	Therapeutic Services	Diagnostics Services	Health Informatics	Support Services	Biotechnology Research and Development

Therapeutic Services Pathway



- Includes Knowledge and Skills Statements for the Cluster and each individual pathway
- Identifies an editable Plan of Study template

Therapeutic Services Pathway

- Knowledge & Skills Statements (PDF, Excel)
- Plan of Study (PDF, Excel)

Knowledge and Skill Statements



Health Science Career Cluster Therapeutic Services Pathway Knowledge and Skill Statements

The Pathway Knowledge and Skills Chart describes what all/most learners/workers need to know and be able to do to demonstrate competence within a career pathway. Following the pathway description, there are four sets of knowledge and skill expectations:

A. Foundational Academic Expectations

B. Essential Knowledge and Skills

C. Cluster (Foundation) Knowledge and Skills

D. Pathway Knowledge and Skills

PATHWAY DESCRIPTION

Therapeutic Services Pathway: Careers in the Therapeutic Services pathway are focused primarily on changing the health status of the patient over time. Health professionals in this pathway work directly with patients; they may provide care, treatment, counseling and health education information.

Knowledge and Skill Statements – Therapeutic Services

Therapeutic Services Career Pathway (HL-THR)

1. Utilize communication strategies to answer patient/client questions and concerns on planned procedures and goals.

HL-THR 1.1: Employ effective oral communication techniques when responding to patient questions and concerns.

Sample Indicators:

- *Assess patients/clients' understanding of the information provided.*
- *Demonstrate empathy for patients/clients.*
- *Construct communication appropriate to the needs of the patient/client and the situation.*



Building your Plan of Study



EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses for Therapeutic Services Pathway	SAMPLE Occupations Relating to This Pathway
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I	Biology	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences. A foreign language is recommended.	• Health Science I: Introduction to Health Science • Information Technology Applications	Occupations Requiring Less than Baccalaureate Degree ▶ Anesthesiologist Assistant ▶ Certified Nursing Assistant ▶ Clinical Medical Assistant ▶ Data Entry Coordinator ▶ Dental Assistant/Hygienist ▶ Dental Lab Technician ▶ EMT/Paramedic ▶ Home Health Aide ▶ Licensed Practical Nurse ▶ Massage Therapist ▶ Orthotist/Prosthetist ▶ Pharmacist/Pharmacy Technician ▶ Physical Therapist/Assistant ▶ Radiologic Technician ▶ Registered Nurse ▶ Respiratory Therapist ▶ Surgical Technician
	10	English/ Language Arts II	Geometry	Chemistry	U.S. History		• Health Science II: Health, Safety and Ethics in the Health Environment	
	11	English/ Language Arts III	Algebra II	Physics or other science course	World History Sociology		• Health Science III: Employment in Health Occupations	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Pre-Calculus or Calculus or Statistics	Anatomy and Physiology	Psychology Economics		• Health Science IV: Introduction to Therapeutic Services	
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition	Algebra	Chemistry Biological Science	American Government Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this pathway.	• Health Science V: Therapeutic Services Preparation	Occupations Requiring Baccalaureate Degree ▶ Athletic Trainer ▶ Audiologist ▶ Chiropractor ▶ Dentist ▶ Dietician ▶ Exercise Physiologist ▶ Nurse Practitioner ▶ Occupational Therapist ▶ Optometrist ▶ Physician (MD/DO) ▶ Physician's Assistant ▶ Psychologist ▶ Recreation Therapist ▶ Social Worker ▶ Speech Language Pathologist ▶ Veterinarian
	Year 14	Speech/ Oral Communication Technical Writing	Statistics or Calculus	Microbiology	American History Sociology		• Continue Courses in the Area of Specialization	
	Year 15	Continue courses in the area of specialization.						
	Year 16						• Complete Therapeutic Services Major (4-Year Degree Program)	

NCHSE

NCHSE
National Consortium for
Health Science Education

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National Health Science Standards

- Academic foundations
- Communications
- Systems
- Employability skills
- Legal responsibilities
- Ethics
- Safety practices
- Teamwork
- Health maintenance practices
- Technical skills
- Information technology in healthcare



NCHSE Crosswalk



National Health Science Standards Crosswalk

The crosswalk template is a working resource to document where the National Health Science Standards (NHSS) being met in their courses. This resource provides teachers a way to ensure all the NHSS have been taught in your health science courses throughout your program. The curriculum column can be used to include examples such as: what lesson is used to teach the standard, which chapter in a particular resource, an activity, project, or PPT, and educational resource used to support teaching of the standard.

Foundation Standard 1: Academic Foundation

Understand human anatomy, physiology, common diseases and disorders, and medical math principles.

1.1 Human A&P	Subcategories	Curriculum	Courses
1.1.1 Describe the organization of the human body and directional terms.			
<i>a. Identify levels of organization</i>	- Cellular - Chemical - Organ - Organism - System - Tissue		
<i>b. Demonstrate anatomical position</i>			
<i>c. Identify body planes</i>	- Coronal / Frontal - Midsagittal - Sagittal - Transverse/Horizontal		
<i>d. Use directional terms</i>	- Anterior / Posterior - Cephalic/Caudal - Medial / Lateral - Proximal / Distal - Superficial / Deep - Superior / Inferior - Ventral/Dorsal		

Building a Patient Care Technician Pathway

National Organizations with Certifications

- American Medical Technologists
- National Patient Care Technician Organization
- National Association for Health Professionals
- National Healthcare Workers Association
- National Healthcareer Association
- National Center for Competency Testing

PCT Content Outline Example



AMT

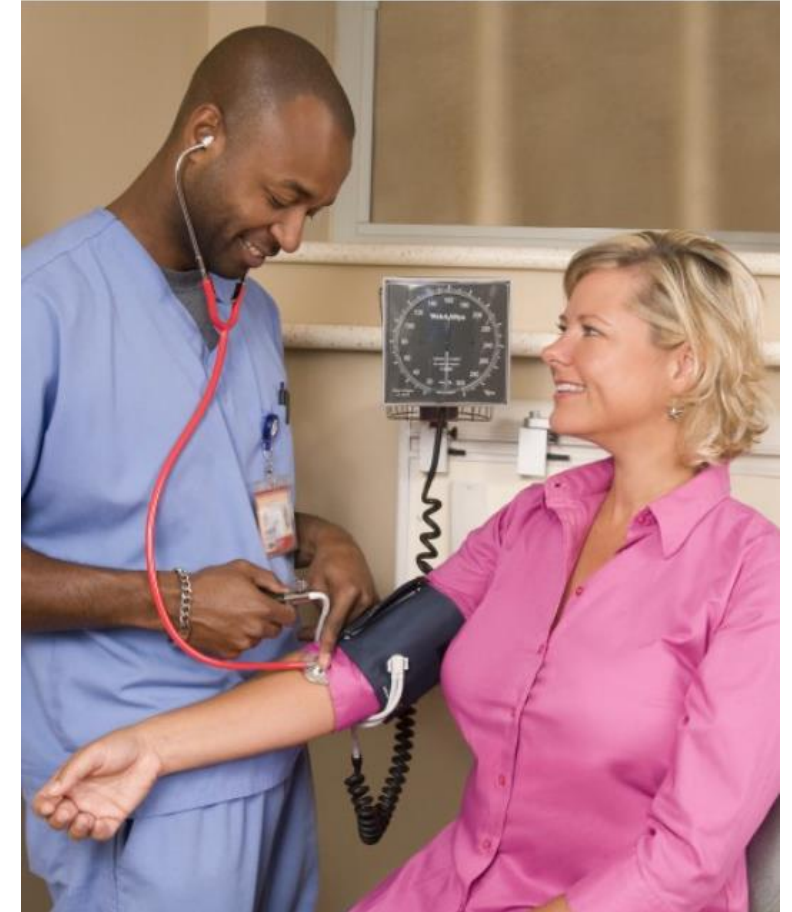
American Medical Technologists

Certifying Excellence in Allied Health

American Medical Technologists Patient Care Technician (PCT) Certification Competencies and Examination Specifications

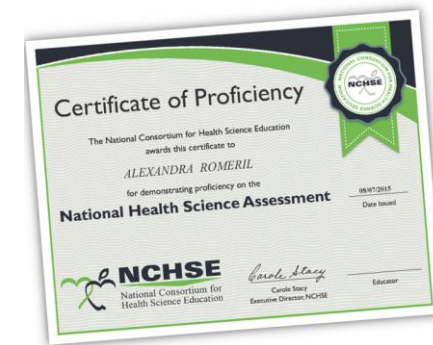
Summary Table

	Work Area	Number of Questions	Percentage of Exam
I.	Allied Health Foundations	76	38.0%
II.	Personal Patient Assistance and Care	42	21.0%
III.	Clinical Procedures	67	33.5%
IV.	Clinical Patient Environment	15	7.5%
	Total	200	100%



National Organizations with Assessments or Competitions

- National Consortium for Health Science Education (NCHSE)
 - National Health Science Assessment
- HOSA – Future Health Professionals
 - National Competitive Events



Realityworks Hands-on Tools and Curriculum!

Hands-On Learning for PCT Training

- Adult Nursing Manikin
- Bandaging and Wound Care Simulator
- ECG Simulator
- 2 Venipuncture & IV Hand Trainers
- 10 Large Injection Pads
- Geriatric Simulator
- Geriatric Sensory Impairment Kit
- 2 Blood Pressure Simulators
- Healthcare Interpersonal Skills Program
- Infant Vital Signs Trainer
- AED Trainer
- Pediatric Nursing Manikin
- Infant CPR Manikin
- Soft Skills Program for Caring for Patients with ID
- Scenario Cards



PCT Implementation Guide



Patient Care Technician
Program Implementation Guide

Use our patient care technician tools and curricula to engage your students in health science careers and help them develop 21st Century skills.

Visit www.realityworks.com/patient-care-technician-program-implementation/ to view product and program details.



ECG Simulator

Create realistic practice scenarios for placing, reading, and recognizing ECG/ECG leads.

Adult Nursing Manikin

Create realistic, interactive scenarios for practicing over 20 basic care procedures, including CPR.

Pediatric Nursing Manikin

Perform over a dozen hands-on pediatric nursing procedures.

Geriatric Simulator

Help students develop empathy and geriatric sensitivity as they complete simple tasks while wearing this age simulation suit.

Infant CPR Manikin

Give students hands-on experience performing infant CPR.

Venipuncture/IV Hand Model

Give students hands-on practice administering basic venipuncture and intravenous injections.

Bandaging and Wound Care Simulator

Teach basic bandaging, dressing and wound care skills.

Blood Pressure Simulator

Practice taking blood pressure safely and consistently.

AED Trainer

Emphasize safety when teaching Basic Life Support (BLS) and Automated External Defibrillator (AED) skills.

Healthcare Interpersonal Skills Program

Help students understand the 10 important interpersonal soft skills needed by successful healthcare workers.

Medical Assistant Career Scenario Cards

Practice soft skills within the context of real-world medical situations.

Infant Vital Signs

Practice taking basic infant vital signs and conducting newborn physical assessments.

Soft Skills Program for Patients with Intellectual Disabilities, Mental Illness, or PTSD

Help students develop soft skills strategies for meeting the needs of patients with intellectual disabilities, mental illness, or PTSD.

Geriatric Sensory Impairment Kit

Help students understand what daily life can be like for patients with hearing impairments, geriatric arthritis, and geriatric tremors.

Large Injection Pads

Practice injections into skin, subcutaneous tissue, and muscle, with or without liquid.

Create a Custom Pathway Package Choose hands-on learning aids and curricula that meet your unique program needs.

All products can be purchased separately

Patient Care Technician Curricula Overview

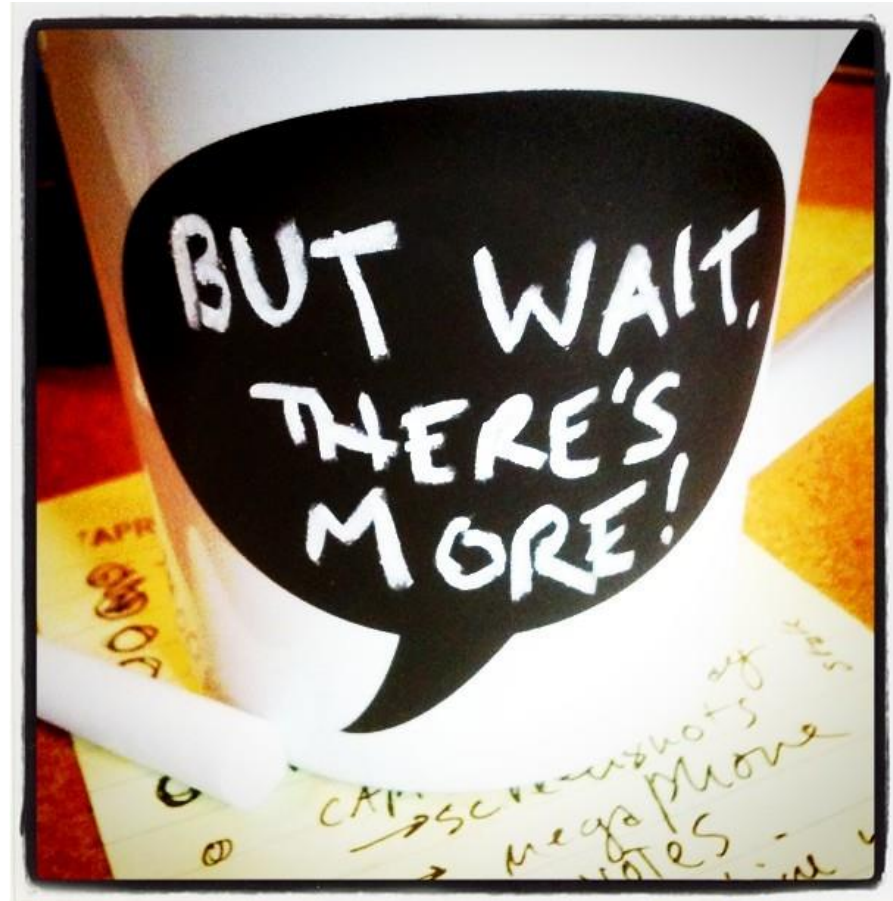
All curricula include lesson plans, presentation slides, assessments and other student materials.

Experiential Learning Tools	Curriculum Length	Lesson Topics	
Infant Vital Sign Trainer	6 hours	• Infant Auscultation • Infant Blood Pressure	• Infant Vital Signs • Newborn Physical Assessment
Healthcare Interpersonal Skills Program	18 hours	• Communication • Teamwork • Problem-Solving • Critical Thinking • Work Ethic • Listening • Responsibility • Patience • Trust • Integrity • Developing Clinical Empathy • Patient Communication	• Applying Clinical Empathy and Therapeutic Communication • Empathy in Emergency Scenarios • Empathy in Phlebotomy, Injection, and Medication Administration Scenarios • Empathy in Patient Care and Vital Signs Scenarios • Empathy and Communication in Pediatric Scenarios • Empathy in Scenarios with Bariatric Patients and Patients with Obesity
Large Injection Pads	3 hours	• Intramuscular Injections • Subcutaneous Injections	• Intradermal Injections • Patient-Focused Care
Blood Pressure Simulator	1-2 hours	• Patient-Focused Care • Procedures for Taking Blood Pressure	
Adult Nursing Manikin	10 hours	• Bathing • Range of Motion • Intramuscular Injections • Intradermal Injections • Catheterization	• Pressure Injuries • Ostomy Care • IV Bolus Medication • Phlebotomy • IV Insertion
AED Trainer	2.5 hours	• Cardiac Arrest Management and AED	
Pediatric Nursing Manikin	10 hours	• Pediatric Bathing • Pediatric Catheterization • Pediatric Immunizations • Pediatric Endotracheal Intubation • Pediatric IV Bolus Medication Administration	• Pediatric IV Insertion • Pediatric Ostomy Care • Pediatric Phlebotomy • Pediatric Range of Motion
Infant CPR Manikin	1-2 hour	• Assessing an Emergency Situation • How to Call for Emergency Medical Assistance	• How to Perform Infant CPR • Hands-On Practice
Bandaging and Wound Care Simulator	1-1.15 hour	• Introduction to Bandaging and Wound Care	
Venipuncture/IV Hand Model Trainer	3 hour	• IV Insertion Procedures • Medication Administration	• Phlebotomy • Patient-Focused Care
ECG Simulator	2-3 hours	• Electrocardiograms (ECG) Basics • Interpretation of ECGs	• Common Arrhythmias
Soft Skills Program for Caring for Patients with Intellectual Disabilities, Mental Illness, or PTSD	2-3 hours	• Defining Intellectual Disability • Defining Mental Illness • Strategies for Caring for Patients with Intellectual Disability	• Strategies for Caring for Individuals with Mental Illness • Strategies for Caring for Patients with Post-Traumatic Stress Disorder
Geriatric Simulator	10-15 hours	• Exploring Geriatrics and Gerontology • Visual Impairment • Declining Mobility Due to Aging • Impact of Aging on Bones and Joints	• Hearing Loss • Cognitive Changes with Aging • The Geriatric Experience • Amazing Aging
Geriatric Sensory Impairment Kit	7-13 hours	• Hearing Loss and Impairment • Impact of Aging on Bones and Joints	• Understanding Tremor in Elderly • The Geriatric Experience

Content Applied to Plan of Study

		Name _____		SAMPLE				
		Learner ID _____						
		School/College/University _____						
Health Science Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty This Career Cluster Plan of Study (based on the Health Science Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.								
EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Health Science	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I	Dependent on chosen pathway	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences. A foreign language is recommended.	**Health Science I: Introduction to Health Science **Information Technology Applications **Health Science II: Health, Safety and Ethics in the Health Environment	Occupations Requiring Less than Baccalaureate Degree ► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Medical Assistant ► Radiologic Technologist ► Registered Nurse Occupations Requiring Baccalaureate Degree ► Athletic Trainer ► Biochemist ► Biostatistician ► Geneticist ► Industrial Hygienist ► Nutritionist ► Occupational Therapist ► Physician (MD/DO) ► Physician's Assistant ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist
	10	English/ Language Arts II	Dependent on chosen pathway	Dependent on chosen pathway	U.S. History			
	11	English/ Language Arts III	Dependent on chosen pathway	Dependent on chosen pathway	World History Sociology			
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pathway	Psychology Economics	Continue courses pertinent to the pathway selected.		
Articulation/Dual Credit Transcripted-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition	Dependent on chosen pathway	Dependent on chosen pathway	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this Career Cluster.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication Technical Writing	Dependent on chosen pathway	Dependent on chosen pathway	American History Sociology			
	Year 15	Continue courses in the area of specialization.						
	Year 16							

Begin to fit these hours of content into your courses.



More FREE Resources

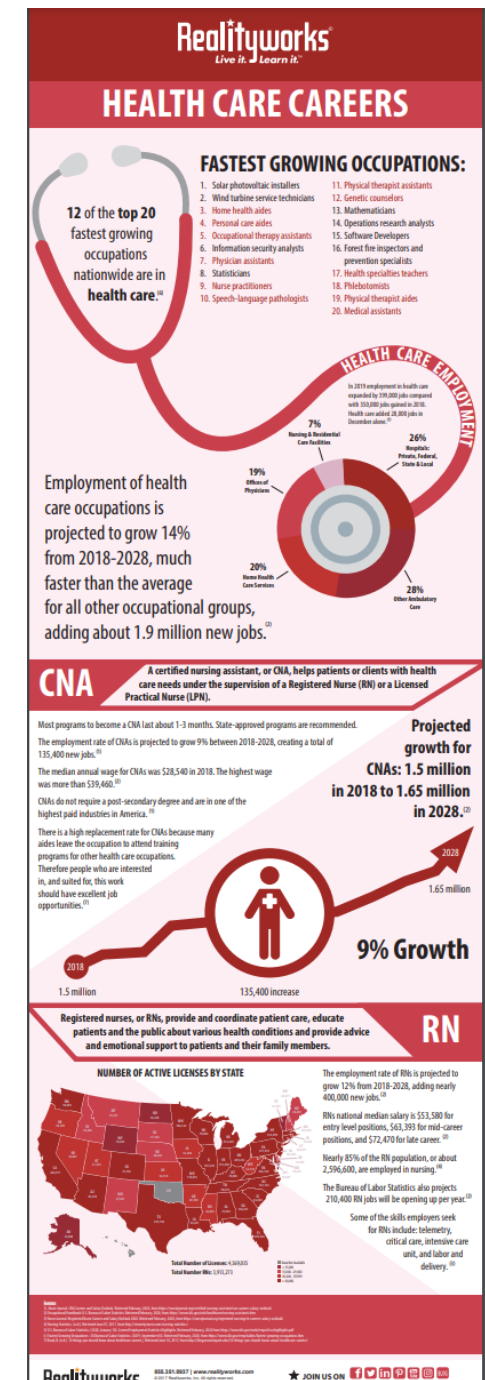
FREE Poster

<https://www.realityworks.com/resources/realityworks-interactive-posters-downloads/>

Career Exploration Lessons – 19 total

- Health Science
- Sports Medicine
- Therapeutic Services

https://www.realityworks.com/thank-freecurriculum/?utm_source=sugarmarket&utm_medium=email&utm_campaign=freelessonsnurture-tyfreecurric-2022



Additional Resources

- Realityworks Blog
 - <http://realityworks.com/blog/>
- Realityworks Webinars
 - <https://www.realityworks.com/resources/webinars/>



Q&A





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