[1]Utica City School District
Career and Technical Education Program
Health Professions Pathway
Summary Overview

Program Overview

The Health Professions Program provides a preparatory pathway for students with a desire to enter a variety of health careers, including nursing, physical therapy, radiation therapy, respiratory therapy, physician's assistant, and many others. The learning environment is designed to prepare students for the rigors of the dynamic health care profession. Instruction will introduce students to infection control, medical terminology, anatomy and physiology, the structure and function of body systems, the study of diseases and the disease process, technology in healthcare, medical ethics and jurisprudence, standards of professional conduct, patient communication, and the fundamentals of patient care.

Work-Based Learning

Students will be connected with professionals in the health professions field. These professional connections may include interviews, field trips to local businesses and facilities, virtual field trips to other locations, presenting their learning and work samples to professionals, job shadowing and career coaching. It is expected that these experiences will lead to opportunities for direct job training and real-world experience in an internship opportunity prior to completion of the program. Students will create and maintain a portfolio of their experiences to document the development of their skills, including a professional resume**.**

Additional Learning Opportunities

- Micro-credentials: Students may pursue learning experiences and credentials depending on the requirements of the project that they are involved in. Some examples for this pathway include, but are not limited to:
    - OSHA 10 Hour General Industry Certification
    - Provider First Aid
    - Stop the Bleed
    - Cardiopulmonary resuscitation (CPR)
    - Automated external defibrillator (AED)
    - Foreign body airway obstruction (FBAO)

Integrated High School Academics

TBD

Concurrent College Enrollment

Mohawk Valley Community College:

- Medical Terminology for Health Professionals HM 100
- Human Anatomy and Physiology 1 BI216

Calendar for Pathway

Level	Quarter	Units of Study

[1] *UCSD will offer all Career and Technical Education opportunities without regard to race, color, national origin, sex, or disability. The District will also take steps to assure that the lack of English language skills will not be a barrier to admission and participation in Career and Technical Education programs.

100 9th Grade	1	• Introduction to Health Professions • Technical Reading and Writing o Patients' Rights and Confidentiality • Effective Study Habits • Communication and Teamwork
	2	• Math Applications in Healthcare • The Science of Food • What is Diabetes? • Life with Diabetes • Sickle Cell Disease

	3	• It's in the Genes
		• Chromosomes
		• Inheritance
		• Patient Care
		  o Communication and Teamwork
		  o Personal Safety
		  o Care of Hazardous Materials
		  o Vital Signs

	4	• Heart Structure • The Heart at Work • Heart Intervention • Infection • Professional Communication • Career Exploration

200
10th Grade
	1	• Health Care Professions Teamwork (Career Exploration)
		• Infection Control
		• Introduction to Health Care Systems
		  ○ Consumer or Patient Rights
		  o Insurance Systems

	2	• Introduction to Health Care Systems (continued) o Emerging Issues and Impact on Health Care Systems • Opioids • Organization of Human Body Systems • Career Exploration • Tissues
	3	• Communication- The Brain • Communication-Electrical Communication • Communication- Chemical Communication • Communication- Communication with the Outside World • Introduction to Power • Power Food • Power- Oxygen
	4	• Power-Water • Movement-Joints and Motion • Movement- Muscles • Movement- Blood Flow • Movement- Energy and Motion - Exercise Physiology • Protection- The Skin • Protection- Bones • Protection: Lymph and Blood Cells • Homeostasis- Health and Wellness • Employability Skills
300 11th Grade	1	• Introduction to Level 300 • Review of Safety Protocols and Procedures • Career Exploration: Preparation for Post-Secondary Opportunities • Information Technology in Healthcare • Mental and Behavioral Health • Introduction to Medical Terminology • Introduction to Pharmacology

	2	• Cardiovascular System • Digestive System • Endocrine System • Hematologic System • Integumentary System • Lymphatic and Immune System • Muscular System • Nervous System • Reproductive System • Respiratory System
	3	• Sensory Organs: Ear and Eye • Skeletal System • Urinary System • Medical Documents • It is All Connected • How to Fight Infection: The Mystery Infection • How to Fight Infection: Antibiotic Treatment • How to Fight Infection: The Aftermath - Hearing Loss
	4	• How to Fight Infection: Vaccination • Medical Intervention- Cancer Detection • Cancer: Reducing Your Risk • How to Conquer Cancer: Treating Cancer • How to Conquer Cancer: Building a Better Cancer Treatment • Manufacturing Human Proteins • When Organs Fail • Career Exploration: Employability and Reflection
400 12th Grade	1	• Introduction, Terminology, and Structural Organization • Homeostasis • Chemical Level of Organization • Cellular Level of Organization: • Cell Physiology: Cell Structure, Function, and Reproduction • Cellular Transport and Protein Synthesis • Cellular Energetics • Tissues: • Types of Tissues • Integumentary System • Skeletal System • Muscular System
	2	• Central Nervous System: Electrophysiology and Neurons • Central Nervous System: Spinal Cord and Reflexes • Central Nervous System: The Brain • Peripheral Nervous System: Sensory Pathways – Somatic Nervous System • Peripheral Nervous System: Autonomic Nervous System • Review and Final Exam • Career Goals, Personal Safety, and Internship Preparation • Legal Responsibilities and Practices
	3	• Ethics • Professional Skills • Internship Participation (10 weeks)
	4	• Internship Reflection • Patient Communication • Professional Certifications • Wellness • Healthcare Across the Lifespan • Complementary and Alternative Health Practices • Professional Conduct