

Interested in a career in Healthcare or Medicine?

Academy of Health Professions



**Medical Career Pathway
at Clarksburg High School**

*Become a Certified Pharmacy Technician
or Personal Trainer!*

Program Overview

The Academy of Health Professions (AoHP) pathway provides students with certified healthcare skills that enable them to train and work alongside healthcare professionals in various settings. Instruction focuses on anatomy, physiology, related-disease conditions, medical terminology, patient care skills, and current healthcare issues. Other areas of emphasis include body mechanics, vital signs, principles of infection control, and care of the hospitalized patient. The AoHP pathway prepares students for a career as a doctor, nurse, therapist or a variety of other health care related careers.

Clarksburg offers two speciality pathways:

- Fundamentals of Pharmacy upon successful completion students receive Certification as a Pharmacy Technician (ExCPT)
- Physical Rehabilitation upon successful completion students receive Certification as a Personal Trainer (NSPA)

Requirements for Program Completion

The Academy of Health Professions (AoHP) is a four credit career completion pathway. It includes two courses that provide students with foundational skills in health care (Foundations of Medicine and Health Sciences and Structures and Function of the Human Body), followed by a specialized course (Fundamentals of Pharmacy or Physical Rehabilitation Science) and a Capstone Experience (Allied Health Internship or College Coursework).

1. Foundations of Medicine and Health Science A/B

This course is designed to provide students with an overview of the therapeutic, diagnostic, environmental, and information systems of the health-care industry. The course includes medical terminology, medical ethics and documentation, health-care delivery systems and agencies, and an introduction to human body systems. Related mathematical concepts are embedded in the curriculum where appropriate.

2. Structures and Functions of the Human Body A/B

This course is designed to provide students with an overview of the structures and function of the human body, including cellular biology and histology. Systematic study involves homeostatic mechanisms of the integumentary, skeletal, muscular, cardiovascular, pulmonary, nervous, urinary, endocrine, lymphatic, and immune systems. Students study the structure and functions of the human body by investigating the response of the body to the external environment maintenance of homeostasis, electrical interactions, transport system, and energy processes. Students will conduct laboratory investigations and fieldwork, as well as use scientific methods during investigations to solve problems and make informed decisions. Students will learn the medical terminology related to body systems.

3. **Fundamentals of Pharmacy A/B -OR- Physical Rehabilitation A/B**

Pharmacy: This course focuses on exposing students to the many career options in pharmacy and pharmaceutical science. Students experience relevant activities that engage them in a rigorous curriculum that integrates academic and technical standards. Students participate in a classroom lab-based experience that prepares them for employment as Pharmacy Technicians.

Physical Rehabilitation: Students are introduced to the world of rehabilitation and therapeutic services. The majority of this course is spent in a lab-based classroom setting for hands-on, relevant training and uses a curriculum developed in partnership with Montgomery College and the National Rehabilitation Hospital Center.

4. **Allied Health Internship A/B -OR- College Coursework**

Internship: The Allied Health Internship Course is designed to give students supervised practical application of previously studied theory in a professional healthcare setting such as a hospital or a physician's office. This internship course includes work-based learning experiences and school-based instructional requirements. Students must intern for at least 150 hours.

- Prerequisite: Foundations of Medicine and Health Sciences A/B, and Structure and Functions of the Human Body A/B
- Co-requisite: Must have completed or co-enrolled in AoHP specialty option (Fundamentals of Pharmacy or Physical Rehabilitation)

College Coursework: Students select one Dual Enrollment class from several health related options.

- Prerequisite: Foundations of Medicine and Health Sciences A/B, and Structure and Functions of the Human Body A/B
- Co-requisite: Must have completed or co-enrolled in AoHP specialty option (Fundamentals of Pharmacy or Physical Rehabilitation)

Sample Course Sequence: Pharmacy Technician

This is a sample pathway schedule that may be tailored to meet a student's individual needs. In addition to program coursework, all students must take prescribed English, math, science, social studies, and other courses required for a Maryland high school diploma.

Grade 9	Grade 10	Grade 11	Grade 12
English <i>English 9/Honors</i>	English <i>English 10/Honors</i>	English <i>English 11/Honors/AP</i>	English <i>English 12/Honors/AP</i>
Mathematics <i>Algebra 1, Geometry/Honors</i>	Mathematics <i>Geometry/Honors, Algebra 2/Honors, or Pre-Calculus/Honors</i>	Mathematics <i>Algebra 2/Honors, Pre-Calculus/Honors, or AP Calculus AB/BC</i>	Mathematics <i>Pre-Calculus/Honors, AP Calculus AB/BC, or AP Statistics/College Level Math Beyond AP Calculus</i>
Science <i>Biology/Honors</i>	Science <i>Chemistry/Honors</i>	Science <i>Physics/Honors/AP</i>	Science <i>AP Science course</i>
Social Studies <i>US History/Honors/AP</i>	Social Studies <i>NSL Government/Honors/AP</i>	Social Studies <i>Modern World History/ Honors/AP</i>	Elective Coursework/College Coursework
Technology Credit¹	Foreign Language²	Elective Coursework	Elective Coursework/College Coursework
Elective Coursework	Coursework <i>Foundations of Medicine and Health Science</i>	Coursework <i>Structures and Functions of the Human Body</i>	Coursework <i>Fundamentals of Pharmacy</i>
Physical Education	Health	Elective Coursework	Capstone Experience <i>Allied Health Internship/College Coursework</i>

¹ **Technology Credit:** Foundations of Technology/Foundations of Computer Science/Introduction to Engineering Design (**choose from options available at CHS**)

² **Foreign Language:** French, Italian, Spanish, German, etc. (**choose from languages available at CHS**)

Sample Course Sequence: Personal Trainer

This is a sample pathway schedule that may be tailored to meet a student's individual needs. In addition to program coursework, all students must take prescribed English, math, science, social studies, and other courses required for a Maryland high school diploma.

Grade 9	Grade 10	Grade 11	Grade 12
English <i>English 9/Honors</i>	English <i>English 10/Honors</i>	English <i>English 11/Honors/AP</i>	English <i>English 12/Honors/AP</i>
Mathematics <i>Algebra 1, Geometry/Honors</i>	Mathematics <i>Geometry/Honors, Algebra 2/Honors, or Pre-Calculus/Honors</i>	Mathematics <i>Algebra 2/Honors, Pre-Calculus/Honors, or AP Calculus AB/BC</i>	Mathematics <i>Pre-Calculus/Honors, AP Calculus AB/BC, or AP Statistics/College Level Math Beyond AP Calculus</i>
Science <i>Biology/Honors</i>	Science <i>Chemistry/Honors</i>	Science <i>Physics/Honors/AP</i>	Science <i>AP Science course</i>
Social Studies <i>US History/Honors/AP</i>	Social Studies <i>NSL Government/Honors/AP</i>	Social Studies <i>Modern World History/ Honors/AP</i>	Elective Coursework/College Coursework
Technology Credit¹	Foreign Language²	Elective Coursework	Elective Coursework/College Coursework
Elective Coursework	Coursework <i>Foundations of Medicine and Health Science</i>	Coursework <i>Structures and Functions of the Human Body</i>	Coursework <i>Physical Rehabilitation</i>
Physical Education	Health	Elective Coursework	Capstone Experience <i>Allied Health Internship/College Coursework</i>

¹ **Technology Credit:** Foundations of Technology/Foundations of Computer Science/Introduction to Engineering Design (**choose from options available at CHS**)

² **Foreign Language:** French, Italian, Spanish, German, etc. (**choose from languages available at CHS**)