

## Career/ Tech Ed Department

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## Academy of Health Professions Teacher

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Photo Courtesy of Project Lead the Way

## Project Lead the Way Program link:

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[https://  
www.montgomeryschools  
md.org/career-readiness/  
plans/health.aspx](https://www.montgomeryschoolsmd.org/career-readiness/plans/health.aspx)

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More info at:

<https://www.ibo.org/>

# International Baccalaureate Career Related Pathway (IBCP)

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Photo Courtesy of the International Baccalaureate

## Academy of Health Care Professions



## What Does the IBCP Enable Students To Do?

The CP enables students to:

- follow their chosen education and career pathways in life
- combine academic subjects with their personal and professional interests and skills
- engage in learning that makes a positive difference to their community
- think critically and creatively
- communicate clearly and effectively in a variety of situations
- work independently and in collaboration with others
- consider new perspectives and other points of view
- develop greater self-confidence and self-awareness
- demonstrate high levels of resilience and flexibility
- be internationally-minded and globally aware
- apply their knowledge to real-world scenarios and situations.

\*According to IBO.org

## Core Components of the IBCP

• **Personal and Professional Skills**  
The goal of Personal and Professional Skills in the IB program is to help students develop better learning skills. These skills fall under categories of communication, social, self-management, research, and thinking.

• **Community and Service**  
Students work with members of the community to satisfy local/global needs. This section of the core emphasizes the need to serve as contribution to academic value and career knowledge. Other characteristics that are developed through the Community and Service component include civic responsibility and social aptitude.

• **Language Development**  
Language Development targets the oral, visual, and written abilities of a student. To develop their language skills, students participate in a monitored self-directed study. IBCP students are required to keep track of their progress in a language portfolio

• **The Reflective Project**  
An in-depth investigation focused on an ethical dilemma within the career study that combines knowledge gained from IB DP courses, sections of the CP core and other career-related work.  
- The Reflective Project must contain:  
• Awareness of ethical consequences on the community  
• An explanation showing knowledge and understanding of the issue chosen  
• Research and evaluation of evidence and differing viewpoints  
• Valid citations and bibliography  
• A word limit of 3,000 words

## The PLTW Pathway

Students in the IBCP Project Lead the Way Programme must:

- ♦ Take at least two IB classes ( **one must be over the course of two years**)
- ♦ Complete a career pathway program
- ♦ Complete the core components

### Academy of Health Care Professions Career Pathway Program:

The Academy of Health Professions utilizes project and problem-based learning, clinical experiences, and classroom and lab instruction to teach students about the field of health care. Students are introduced to basic health-care knowledge and skills through two foundation courses: Foundation of Medicine and Health Science and Structures and Functions of the Human Body. Opportunities for students to apply foundational course knowledge to real-life health-care situations are offered through specialized course options such as Medical Science with Clinical Applications. Students will have the opportunity to earn state and/or nationally recognized certifications and/ or college credit through articulation agreements with local colleges. Students may choose from several options for program completion. These may include enrollment in a postsecondary institution, internship, or a guided research course. Students are strongly encouraged to complete four years of science. At a minimum, students should take biology and chemistry while enrolled in the program

#### Course Sequence

**FOUNDATIONS OF MEDICINE AND HEALTH SCIENCE** A/B **4044/4045** 0.5 credit  
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.

**STRUCTURES AND FUNCTIONS OF THE HUMAN BODY** A/B Prerequisites: Foundations of Medicine and Health Science A/B **4042/4043** CM (AL) 0.5 credit  
Students study the structure and functions of the human body by investigating the body's responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy processes. Students will conduct laboratory investigations and fieldwork, use scientific methods during investigations to solve problems, and make informed decisions. Upon completion of this course, students will be eligible to take a medical terminology exam for college credit.

#### **CERTIFIED NURSING ASSISTANT (CNA) WITH CLINICAL APPLICATIONS**

Prerequisite: Foundations of Medicine and Health Science A/B, Structures and Functions of the Human Body A/B and a grade of B or better in Biology A/B  
Corequisite: Must be co-enrolled in appropriate math and Chemistry A/B **3889/3890** (AL) (DP) 1.0 credit

This course enables students to explore careers in the health care industry and gain skills related to patient care practiced in hospitals and long-term-care facilities. Students receive cardiopulmonary resuscitation (CPR) training and may be eligible for certification as a certified nursing assistant.

#### **Certifications and College Credit**

##### **Certification**

**Certified Nursing Assistant (CNA)** - Pass the teacher developed Certified Nursing Assistant assessment

##### **College Credit**

**College Credit** - Based on articulation agreements and dual enrollment options in the program, students can obtain TSAs once they have passed course requirements and are eligible to receive college credit.