

Biomedical Sciences at PHHS

The PHHS Biomedical Sciences program is rigorous and requires an application. Students will be accepted based on their grades, math level, attendance, teacher recommendations, and written essays. All courses receive honors level credit.

For more information or the application, please visit our website or contact us.

ONLINE

Application Due 12/16/16

by 2:15 pm

Paper application available by request

Course Sequence

PBS — 9th Grade

HBS — 10th Grade

MI — 11th Grade

BI — 12th Grade

**For More Information
and to Apply,
Visit our Website:**

<https://perryhallhs.bcps.org>

or

Follow us on Twitter

@PHHSBiomed

#PHHSBiomed

Contacts:

Terri Cohee

Science Department Chair

tcohee@bcps.org

Matt Ferenschak

School Counselor Chair

mferenschak@bcps.org

Shannon Esposito

Biomedical Sciences Teacher

sesposito2@bcps.org

www.pltw.org

@PLTWorg

Perry Hall High School

4601 Ebenezer Rd
Baltimore, MD 21236
(410) 887-5108



Perry Hall High School Biomedical Sciences



Up Close...



Who is PLTW?

“Project Lead The Way (PLTW) is a non-profit organization and the nation’s leading provider of K-12 STEM programs. Through world-class, activity-, project-, and problem-based curriculum, high-quality teacher professional development, and an engaged network of educators and corporate partners, PLTW helps students develop the skills needed to succeed in our global economy.”

WHY PLTW?

- Specialized Trained Teachers—teachers go through a rigorous 2 week training program for each course!
- College Credit—available by completing the courses and through multiple colleges.
- Potential for field related experiences.



Program Goals

- ⇒ Prepare students for the future through real-world problem solving activities.
- ⇒ Increase the number of students entering careers in the biomedical sciences field.
- ⇒ Engage students in a rigorous, academic, learning-centered curriculum.
- ⇒ Improve college readiness.
- ⇒ Raise student achievement in Science and Math

Hands On...

Course Descriptions

Principles of Biomedical Sciences (PBS)

- ⇒ In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. Students investigate forensics, heart disease, diabetes, sickle cell anemia, hypercholesterolemia, and infectious diseases.

Human Body Systems (HBS)

- ⇒ Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on MANIKEN® skeletal models and take on the roles of biomedical professionals to solve real-world medical cases.

Medical Interventions (MI)

- ⇒ Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through cases, students learn about a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovations (BI)

- ⇒ In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology.



Relevant.