

BIOMEDICAL SCIENCES ACADEMY

at University High School



Principles of the Biomed Sciences Honors

Students investigate various health conditions via a variety of scientific branches of study such as forensics and clinical care. This course provides a platform for all of the subsequent courses in the Biomedical Sciences Academy and lays a strong scientific foundation for additional medical courses.

Human Body Systems Honors

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration.

Medical Interventions Honors

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body.

Biomedical Innovations Honors

In this final course of the PLTW Biomed 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, biomedical engineering to clinical medicine, perform autopsies to further their knowledge of anatomy, and design an Emergency Department from the ground up.



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The program follows a hands-on, project-based, real-world approach to learning. Students explore the concepts of human medicine and are introduced to topics such as forensics, genetics, microbiology and infectious disease. Through activities, like dissections, students examine the processes, structures and interactions of the human body, as well as real-world case studies that allow them to collaboratively problem solve various medical situations. Students explore the prevention, diagnosis and treatment of diseases, working collaboratively to investigate and design innovative solutions to the health challenges of the 21st century such as fighting cancer with nanotechnology.

Who Is eligible to apply?

All students entering 9th or 10th grade during the open enrollment period who have a 3.0 or better G.P.A., excellent attendance, consistent test scores, and no behavioral referrals.

How to apply?

In Parent Portal- (on left under Students name)

Select: Career Academy Application

For detailed Instructions and Deadline Dates:

Go to www.uhstitans.com

Choose Academics and Applying for an Academy



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How to Apply

