

## **Biomedical Science Program at Bel Air High School**

The Biomedical Science Program at Bel Air High School is now looking for current Bel Air Middle School 8<sup>th</sup> graders to indicate their interest in joining our program. Here is a brief description of the Biomedical Science Program:

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future. Each course in the Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses. Please see the following website for more information about PLTW and the Biomedical Science curriculum: <https://www.pltw.org/our-programs/pltw-biomedical-science>

### ***What are the pre-requisites for joining the program?***

Students are strongly recommended to have completed Algebra I before finishing at Bel Air Middle School. Students should also be successful in their Middle School Math and Science classes as the program will be rigorous and challenging.

### ***What type of students are successful in the Biomedical Science Program?***

Students need to have a strong work ethic, good organizational and time management skills, and they need to be effective learners in a Science and Math classroom setting. Students will be taking an extra college level science class as part of the Biomedical Science Course Pathway each year as listed below. Students should be prepared for engaging activities and dynamic lessons, but a lot of challenging content will be covered as part of the Biomedical Science curriculum.

### ***What courses are part of the Biomedical Science Program?***

Students will be expected to take 4 college level courses as part of the Biomedical Science Course Pathway. Students are expected to finish all 4 courses to complete their designated career pathway. Successful completion of each grade level course is required in order to move on to the next grade level course. The course sequence will be as follows:

*9<sup>th</sup> grade- Principles of Biomedical Science*  
*10<sup>th</sup> grade- Human Body Systems*

*11<sup>th</sup> grade- Medical Interventions*  
*12<sup>th</sup> grade- Biomedical Innovations*

For full descriptions of each course, please visit: <https://www.pltw.org/our-programs/pltw-biomedical-science-curriculum>

### ***What other courses will students be recommended to take along with the Biomed classes?***

It is also recommended that students take upper-level science courses, including Honors Biology, Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, Anatomy and Physiology, and other elective science courses.