

Health and Biosciences Cluster



PLTW Biomedical Science Program

PROGRAM OF STUDY OVERVIEW:

The Project Lead The Way (PLTW) Biomedical Sciences program is based on the National Standards for Science, Mathematics, and English Language Arts, and the Accountability Criteria for the National Health Care Cluster Foundation Standards. Students who complete the program are prepared for employment and further education at two- and four- year college levels.



Entrance Grades	Principles of Biomedical Sciences 1 Credit	Human Body Systems 1 Credit	Medical Interventions 1 Credit	Biomedical Innovation 1 Credit COMPLETER
9th Grade Entrance (By 8th Grade Application)	Fall Freshman	Spring Sophomore	Spring Junior	Fall Senior
10th Grade Entrance	Fall Sophomore	Spring Sophomore	Fall Junior	Spring Junior
11th Grade Entrance	Fall Junior	Spring Junior	Fall Senior	Spring Senior

IN THIS PROGRAM

Students will:

- Analyze and effectively present data from experiments;
- Write lab reports, research summaries, and modify grant proposals;
- Explain how the human body is a system, consisting of the interconnections of multiple smaller systems including cardiovascular, muscular-skeletal, nervous, digestive, endocrine, immune, and reproductive;
- Build models of multiple types of biological macromolecules, including carbohydrates, proteins, lipids, and nucleic acids, and explain their functions in the body; and
- Describe a variety of medical interventions that prolong life including procedures for the diagnosis, treatment, and prevention of diseases or medical conditions.

COURSE SEQUENCE

- Principles of Biomedical Sciences (T)
- Human Body Systems (T)
- Medical Interventions (T)
- Biomedical Innovations

(T) transcripts college credit

For course descriptions, please see the WCPS Course Catalog @ <https://www.worcesterk12.com/>

STUDENT ORGANIZATION



EARLY COLLEGE PROGRAM PARTNERS

Stevenson University
Salisbury University (pending)