

BCPS Magnet Programs High School Programs

Academy of Science, Engineering, and Information Technology

This academy offers specialized pathways in:

Project Lead The Way (PLTW) Biomedical Sciences[‡] □ - offers an intense focus on the concepts of human medicine and biomedical innovations through an introduction to physiology, genetics, microbiology and public health. PLTW courses are structured so students acquire strong teamwork and communication skills. Students develop organizational, critical-thinking, and problem-solving skills as they investigate various health conditions and infectious diseases, examine the interactions of human body systems, and explore how to prevent and fight infection. Students in the program may participate in an internship, clinical experience, or conduct independent research in the biomedical sciences field.

Engineering and Informational Technology - offers a unique combination of engineering and programming courses in order to prepare students with the ability to design and construct both physical structures, such as bridges, houses, and machinery, and computer programs, such as Web sites and apps. This blend of digital and non-digital constructions strengthens students' abilities to be effective in multi-disciplinary environments.

[‡] *Students may earn a minimum of four MSDE Career & Technology Education (CTE) credits for graduation*

□ *Transcribed credit may be earned from Stevenson University*



-available at Lansdowne High School Academy (LHS)

BCPS Magnet Programs High School Programs

Programs of Study

Pathways	Grade 9	Grade 10	Grade 11	Grade 12	Electives
Engineering	Keyboarding/ Career Strategies	Engineering Technology OR Principles of Engineering	Physics OR Introduction to Networking	Research & Experimentation in Technology	IETC Drafting & CAD Capstone Work Experience Engineering Internship Dual Enrollment
PLTW Biomedical Sciences	G/T or Honors Biology OR Environmental Science	Chemistry OR Ecology of Maryland	Physics OR AP Biology OR Paramedical Biology	AP Environmental Science OR Forensic Science	Geometry Algebra I Algebra II College Algebra GT/AP Statistics
Information Technology	Introduction to Information Technology	HTML/JavaScript OR Software & Computer Applications II	Visual Basic OR Computer Science AP A	Object Oriented Programming Using C++ OR Computer Science AP AB	Database Applications

Lansdowne High School

3800 Hollins Ferry Road

Baltimore, MD 21227

410-887-1415

Applications are accepted for Grades 9 and 10

Transportation is provided for students who are zoned for the Southwest or Northwest areas, as well as those who would otherwise attend Dulaney or Towson High School.