

## BCPS Magnet Programs High School Programs

### Academy of Science, Engineering, & Mathematics

This academy offers specialized pathways in:

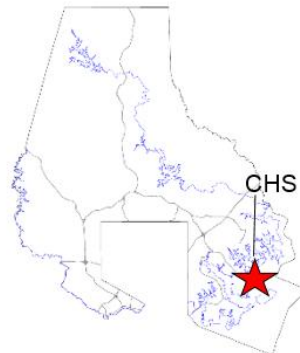
**Project Lead The Way Engineering/ Aerospace Science** \*‡ – provides students with the opportunity to develop thinking skills as they design and build solutions to authentic engineering problems. Students analyze, evaluate, and produce models of project solutions and digital circuitry using industry-standard computer software. Students apply scientific and engineering concepts to design materials and processes that directly measure, repair, improve, and extend systems in different environments. *(Successful completion of Grade 8 Algebra I is strongly recommended for the Pre-Engineering Pathway.)*

**Environmental Science** – provides opportunities for students to investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify both natural and human-made environmental problems, analyze the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them.

**Mathematics** – provides opportunities for students to develop a pure understanding of the connections between Algebra and Calculus as they learn mathematics through the use of technology and explore careers in the field.

\* *Articulated college credit may be earned from the Community College of Baltimore County.*

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



*-available at Chesapeake High School STEM Academy (CHS)*

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### Programs of Study

Pathways	Grade 9	Grade 10	Grade 11	Grade 12	Electives
<b>Project Lead the Way/ Aerospace Science</b>	Introduction to Engineering Design	Principles of Engineering	Digital Electronics AND Aerospace Engineering	Engineering Design & Development	Physics Trigonometry with Analytic Geometry College Algebra Calculus AP Computer Science "A" AP Computer Science "AB" AP Physics
<b>Environmental Science</b>	Environmental Science OR Biology	Biology OR Chemistry	AP Biology Paramedical Biology OR Forensic Science	AP Environmental Science AND/OR Physics	Biotechnology Forensic Science
<b>Mathematics</b>	Algebra I OR Algebra/Data Analysis OR Algebra II/Honors Algebra II OR GT9 Geometry	Algebra II OR Honors Algebra II OR Geometry/Honors Geometry OR GT10 Pre-Calculus	Geometry/Honors Geometry OR Honors Trigonometry with Analytic Geometry AND Honors College Algebra OR AP Calculus AB (I/II)	Honors Trigonometry with Analytic Geometry AND Honors College Algebra OR AP Calculus AB (I/II) OR AP Statistics OR AP Calculus BC (III)	Algebra/Data Analysis Algebra II Honors Honors Geometry Geometry Honors Trigonometry with Analytic Geometry Honors College Algebra

#### Chesapeake High School

1801 Turkey Point Road

Baltimore, Maryland 21221

443-809-0100

Applications are accepted for Grade 9

Transportation is provided for students who are zoned to attend Chesapeake, Dundalk, Kenwood, Overlea, or Patapsco High School and Center for the Arts.