


High School Programs

<p>Academy of Science, Engineering, & Mathematics This academy allows students to develop their interests and talents in Pre-Engineering, Environmental Science, Biomedical Science/Allied Health, and Mathematics.</p> <p>Project Lead The Way Engineering/Aerospace Science: Students 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. <i>(Successful completion of Grade 8 Algebra I is required for admission to the Pre-Engineering Pathway.)</i></p> <p>Environmental Science: Students 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.</p> <p>Mathematics: Students 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 of mathematics.</p>	 <p style="font-size: small;">-available at <i>Chesapeake High School STEM Academy (CHS)</i></p>
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Project Lead the Way Pre-Engineering Pathway in Aerospace Science

Program of Study

Grade 9	Grade 10	Grade 11	Grade 12
Introduction to Engineering Design	Principles of Engineering	Digital Electronics OR Aerospace Engineering	Engineering Design & Development
<u>Elective Courses</u> Independent Research and Experimentation			

Environmental Science Pathway

Program of Study

Grade 9	Grade 10	Grade 11	Grade 12
Concepts of Physical Science	Biology OR Environmental Science	Aquatic Science	AP Environmental Science

High School Programs

<u>Elective Courses</u> Chemistry Biotechnology Physics Independent Research and Experimentation
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Grade 9	Grade 10		Grade 12
Concepts of Physical Science	Biology OR Paramedical Biology OR Biotechnology		Anatomy & Physiology OR AP Biology

Mathematics Pathway
Program of Study

Grade 9	Grade 10	Grade 11	Grade 12
Algebra I OR Algebra II OR GT9 Geometry	Algebra II Geometry OR GT10 Pre-Calculus	Honors Trigonometry with Analytic Geometry OR Honors College Algebra OR AP Calculus AB (I/II)	AP Calculus AB (I/II) OR AP Statistics OR AP Calculus BC (III)
<u>Elective Courses</u> 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 MD 21221
 410-887-0100

Program Title: Academy of Science, Engineering, & Mathematics
 Applications are accepted for Grade 9. Transportation is provided for students who would otherwise attend Dundalk, Kenwood, Overlea, or Patapsco High School.