APPLICATION PROCESS

Chesapeake students interested in applying to The Governor’s STEM Academy apply while in eighth grade. Accepted candidates will be enrolled full-time at Grassfield High School for grades 9-12. Multiple criteria will be used to screen applicants as follows:

❖ Teacher recommendations.
❖ Achievement data.
❖ Evidence of interest and aptitude in STEM as demonstrated through an assessment.
❖ Writing sample that demonstrates effective writing skills.

Applications will be available on-line and from middle school counselors by December 1st. Portions of the application will be completed at Grassfield High School on scheduled Saturdays.

Application Due Dates:
Part A: 12-13-18
Part B: 1-15-19

TARGET POPULATION

The target population is students from across Chesapeake who envision themselves pursuing a STEM oriented career and/or who demonstrate a particular talent or interest in the field of technology.

PROGRAM GOAL

The goal of the Grassfield High School Governor’s STEM Academy is to provide students with STEM enriched 21st-century technological skill and knowledge necessary to succeed in postsecondary education and the work force.

OBJECTIVES

The student will be able to:

1. Successfully complete a state-approved, sequential program of study that focuses on critical technical skills and knowledge.
2. Extend knowledge through internships, mentorships, and job-shadowing in the field of technology.
3. Create an exit portfolio of exemplary work for future use.
4. Attain industry certification(s).

Grassfield High School Governor’s STEM Academy
2007 Grizzly Trail
Chesapeake, VA 23323
Principal: Mike Perez
Governor’s STEM Academy Coordinator: Meredith Strahan
Phone: (757) 558-4493
Fax: (757) 558-9240
Email: Meredith.Strahan@cpschools.com

The Grassfield High School Governor’s STEM Academy combines academic and technical training that prepares students for a variety of post-graduation choices:

College/University Studies, Advanced Technology Training, or Entry-level Jobs.

The Chesapeake Public School system is an equal educational opportunity school system. The School Board of the City of Chesapeake also adheres to the principles of equal opportunity in employment and, therefore, prohibits discrimination in terms and conditions of employment on the basis of race, sex, national origin, color, religion, age, or disability.
**ENGINEERING & TECHNOLOGY**

The Engineering & Technology Pathway combines hands-on projects with a rigorous curriculum to prepare students for the most challenging postsecondary engineering and technology programs. It is a great fit for the student who is interested in how things work or how to apply and use technology.

**9th Grade Course**
Introduction to Engineering (weighted .025)

**10th & 11th Grade Courses**
Principles of Engineering (weighted .025)
Digital Electronics (weighted .05)

**11th & 12th Grade Courses**
Aerospace Engineering (weighted .05)
Civil Engineering and Architecture (weighted .05)

**12th Grade Course**
Engineering Design and Development (weighted .05)

A technical writing component will be incorporated into the curriculum of each STEM Academy course.

Students may qualify for the AP (Advanced Placement)+ PLTW student recognition depending upon chosen coursework.

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**PROGRAMMING & SOFTWARE DEVELOPMENT**

The Programming and Software Development Pathway is a great fit for the analytical student who has a love for computers. Computer programmers use logic and reasoning to identify complex problems and create innovative solutions.

**9th Grade Course**
IT Fundamentals

**10th & 11th Grade Courses**
Programming
Database Design/Management

**11th & 12th Grade Courses**
Advanced Programming (weighted .025)
Advanced Database Design/Management (weighted .025)

A technical writing component will be incorporated into the curriculum of each STEM Academy course.

Industry Certifications Possible
IC3 Global
Microsoft Office Specialist: Word, Excel, ACCESS, and/or PowerPoint
Microsoft Office Specialist EXPERT
MTA Database Fundamentals
NOCTI Computer Programming
MTA Java Fundamentals

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**GLOBAL ENTREPRENEURSHIP & TECHNOLOGY**

The Global Entrepreneurship & Technology Pathway is a great fit for the student who likes to tackle society's most pressing issues. Entrepreneurs pursue their ideas and take risks, including financial, in the name of an idea.

**9th Grade Course**
Leadership and Entrepreneurship Education

**10th & 11th Grade Courses**
Global Marketing and Commerce
Sports, Entertainment, and Recreation Marketing

**11th & 12th Grade Courses**
Leadership Development
Advanced Sports, Entertainment, and Recreation Marketing (weighted .025)
Advanced Global Marketing and Commerce (weighted .025)

A technical writing component will be incorporated into the curriculum of each STEM Academy course.

Industry Certifications Possible
National Retail Federation Customer Service & Sales
National Retail Federation Advanced Customer Service & Sales
Workplace Readiness Skills