

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:

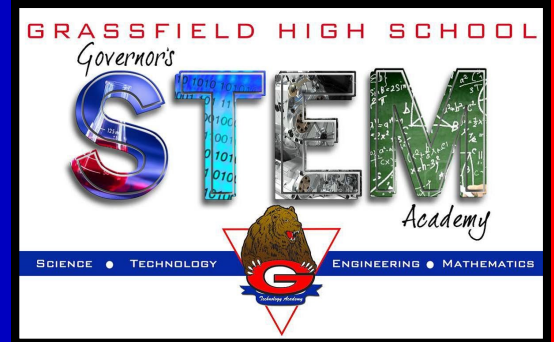
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The Chesapeake Public School system is an equal educational opportunity school system. The School Board of the City of Chesapeake also adheres to the principles of equal opportunity in employment and, therefore, prohibits discrimination in terms and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



SKILLS FOR
21ST
CENTURY
LEARNING

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.

BUILDING A COMMUNITY OF EXCELLENCE

ENGINEERING & TECHONOLOGY

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.



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



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

