



# Governor's STEM Academy

## at Heritage High School

5800 Marshall Ave. • Newport News, VA 23605



### What is the Governor's STEM Academy?

The state and nationally recognized program at Heritage High School Governor's STEM Academy expands options for students in science, technology, engineering and mathematics (STEM). The program combines academic coursework and research experience with a challenging and focused school environment to prepare students with high-wage and high-demand careers. Students will gain the knowledge and skills needed to succeed in technologically rich workplaces by learning how to work in teams, communicate effectively and apply the principles of science, technology, engineering and mathematics.

The magnet program is designed to provide students in grades nine through twelve the opportunity to explore several STEM career paths. The program prepares students for bachelor's degrees, two-year associate's degrees, apprenticeships and employment.



### Program Areas

In addition to taking English, math, science, social studies, physical education and world languages, students will take a technology course related to their career interest in one of the following program areas each year:

- Engineering and Robotics
- Computer Science and Game Design
- Computer Networking and Cybersecurity



### What does the program require of students?

In order to complete the program successfully, students must:

- Complete an advanced mathematics course beyond Algebra II
- Maintain a minimum 3.0 GPA
- Take a mathematics, science and technology course each year
- Complete a STEM work-based internship (minimum of 15 hours)
- Complete courses within a specific pathway in:
  - Information Technology
  - Programming and Software Development
  - Science and Mathematics
  - Engineering and Technology
  - Video and Media Arts
  - Network Systems
- Earn an industry certification
- Complete 200 hours of school and/or community service
- Complete the Senior STEMinar course



## What careers will the Governor's STEM Academy help prepare me for?

Governor's STEM Academy students develop skills in critical thinking and problem-solving that are strong preparation for any profession, but the STEM program has direct applications in a variety of areas for further study and career options, including:

- Actuary
- Architect
- Biochemist or biophysicist
- Biologist or microbiologist
- Cartographer
- Chemist
- Engineer: Aerospace, industrial, biotechnology, chemical, marine, materials, civil, petroleum
- Engineering manager
- Geoscientist or materials scientist
- Hydrologist
- Materials lab and supply technician
- Mathematician
- Nuclear equipment operation or monitoring technicians
- Post-secondary education vocation
- Quality technician
- Software developer
- Statistician
- Surveying and mapping technician
- Technical writer

## Who is eligible and who should apply?

Students must demonstrate an interest in the Governor's STEM Academy and the ability to benefit from the instruction it offers. All rising ninth grade students are welcome to apply. All other students must contact the program administrator. Siblings of current Governor's STEM Academy ninth through eleventh grade magnet students will receive priority admission for the upcoming school year.



## How do I apply for the magnet program?

All students who wish to attend magnet programs must submit a Magnet School Application by the December deadline. Magnet applications must be submitted electronically. Links to magnet applications are available on the Newport News Public Schools website at [www.nnschools.org/magnet](http://www.nnschools.org/magnet). For additional assistance, please contact the NNPS Magnet Office at 757-283-7850 ext. #10206.

Transportation is provided to all magnet program students who reside in Newport News.

## How can I find additional information?

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