

The Governor's School @ Innovation Park

A STEM Initiative (Science, Technology, Engineering, Mathematics)

City of Manassas Public Schools City of Manassas Park Public Schools Prince William County Public Schools

in Collaboration with George Mason University

General Information

Schools, Manassas Park City Public Schools and Prince William County Public Schools

- ▶ 118 slots:
 - 88 PWCS
 - 20 MCPS
 - 10 MPCS



The Learning Environment at GS@IP

- Advanced level courses in which students must synthesize information and apply knowledge
- Projects based on student interests and talents
- Positive learning environment
- Team-based learning
- Flipped approach to learning
- Prepares students for college and the 21st Century workforce

Weekly and Daily Schedule

- Monday, Wednesday, Friday
 - Science and Math
- Tuesday and Thursday
 - Principles of Technology and Engineering (PTE) Classes
 - Research or Engineering Projects
- ▶ 1st Period 7:30 to 9:20 am
- 2nd Period 9:30 to 11:15 am



Course Sequence

Year	Mathematics	Science	Engineering/ Technology	Research
Junior Year	Precalculus/ Calculus I or Calculus I/II	Biology I or Chemistry I or Physics I	Principles of Technology and Engineering I (select from multiple course offerings)	Intro to Science Research or Engineering Project Design and Methodology
Senior Year	Calculus I/II or Calculus III/ Linear Algebra	Biology II or Chemistry II or Physics II	Principles of Technology and Engineering II (select from multiple course offerings)	Hands-on research or engineering project in area of interest
	All courses are weight	ghted as AP/Dual Er	nrollment or Honors	

Math Courses Offerings and Options for College Credit

Governor's School Course Names	George Mason Dual Enrollment Option	Advanced Placement Examination Option
Pre-Calculus	Math 105	
Calculus I (Part A and B)	Math 124 – Math 125	Calculus AB
Calculus I-II Honors	Math 115 – Math 116	Calculus BC
Calculus III/ Linear Algebra	Math 203 - Math 215	

School Divisions pay for **one** 3 or 4 credit course for dual enrollment in the junior year and **two** 3 or 4 credit courses in the senior year. **TWO of the THREE courses paid for must be mathematics.**

Science Course Offerings and Options for College Credit

Governor's School Course Names	George Mason Dual Enrollment Option	Advanced Placement Examination Option
Advanced Biological Studies I	Biology 103 – 104 + labs General Biology	Advanced Placement Biology
Advanced Biological Studies II	Biology 124 + lab and 246 Anatomy and Physiology Microbiology	
Advanced Chemistry I	Chemistry 211-212 + labs General Chemistry	Advanced Placement Chemistry
Advanced Chemistry II	Chemistry 104 and 155 + labs Introduction to Organic Chemistry and Environmental Chemistry	
Advanced Physics I	Physics 243-245 + labs College Physics	Advanced Placement Physics B (both exams)
Advanced Physics II	Physics 160 – 260 + labs University Physics	Advanced Placement Physics C (both exams)

PTE Course Offerings and Options for College Credit

Governor's School Course Names	George Mason Dual Enrollment Option	Advanced Placement Examination Option
Introduction to Engineering	ENGR 107	
Geomatics and Engineering Graphics	CEIE 203	
Introduction to Bioengineering	BENG 101 (online; DE only)	
Programming I and II (JAVA)	CS 112 CS 211	Computer Science
Introduction to Research/Project Design and Methodology I / II	COS 120	
Innovations		

Courses fulfill the CTE elective requirement for an advanced studies diploma

Mentorship Research Program

- Students spend time developing and engaging in authentic research projects during senior year.
- Projects may be developed and research conducted at the George Mason Campus or with a business or industry mentor off campus.



Applicant Eligibility and Pre-requisites

- Applications are submitted to the school division in February during the tenth grade year of studies
 - MCPS 2/2/15
 - MPCS 2/3/15
 - PWCS 2/6/15
- Math: Students should complete (at minimum) Algebra II/Trig before applying
- Science: Students should complete 1 year of both **Biology** and **Chemistry** before applying; students are also very strongly encouraged to take a Physics course before enrolling

The Application Process

- The application process and student selection expectations were developed with representation from each school division.
- The number of students from each school division is preestablished.
- The application review for the selection of students is conducted by each school division.



Highlights of the Application

- Complete Career Highlights relating to science, technology, engineering and/or mathematics
 - Activities and Organizations
 - Honors and Recognitions
- Complete Student Portfolio
 - Research Project
 - Submit project from previous Science or Engineering Fairs
 - Study Experience
 - **Portfolio Reflection**

Highlights of the Application

- Complete Academic Essay
 - 2 Essay Prompts (application and controlled setting)
 - Recommendations Science and Mathematics Teacher
 - + Other Adult
- Participate in Interview (as applicable, depending on school division requirements)
- Score Options will be completed by Selection Committee
 - Unweighted GPA in STEM Courses
 - Aptitude
 - Achievement



GOVERNOR'S BOHO EPICATON SCREDARECTION Process

Part 1 - Reader One:		321 Read	er Two:6	54;	321
Part 2 - Reader One:	654	321 Read	er Two: 6 _	54;	321
TOTAL II: (Average o	of Reader One + Rea	ader Two) + (Ave	erage of Reader	One + Reader)	= (12 max)
II. Teacher Recommend	ations:				
Rating Scale (max 24 poin (Math Teacher +		Other Tascher/A	fult) dividad by 3	1 – (24 may	·) [A]
TOTAL III: (Rating So		Other reacher/Ac	iuit) divided by 3) – (24 IIIax	.) [A]
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GRAND TOTAL: (Add Total

(100 max)

Upcoming Events

 Annual ASTEM event – Saturday, January 31 from 10 am to noon at GMU PW Campus in Bull Run Hall (preregistration required and available in late November)



Points of Contact

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