

# Governor's School @ Innovation Park

Degree Type  
Specialty Programs

## Governor's School @ Innovation Park Pathway

The Governor's School @ Innovation Park (GS@IP) provides an alternative learning environment in a university setting designed to meet the needs of academically talented and highly motivated learners. The STEM program provides a uniquely designed integrated science, math, engineering, and technology curriculum with real-world research and application opportunities. Students attending GS@IP will be engaged in multiple opportunities to develop their leadership skills and potential by applying their intellectual design based on research into action proposals. Students attending the partial-day program at The Governor's School will have the opportunity to continue being involved in the social and extracurricular activities offered by their base schools. By providing a dual enrollment program, The Governor's School @ Innovation Park enables college-bound students to be challenged with college-level content while earning both high school and college credits in science and math. Students will also be awarded opportunities to interact with science researchers and learn about possible career opportunities.

### Interdisciplinary Connectivity and Technology Integration

GS@IP faculty collaborates to integrate content knowledge and skills across disciplines. Students are challenged to understand and engage in the process of scientific investigation using state-of-the-art technology and to utilize their technical writing skills to present their findings.

## Program Sequencing

Subject	11th Grade	12th Grade
Math	GS Pre-Calculus	GS Calculus 1
	GS Calculus 1	GS Calculus 2
	OR	OR
	GS Calculus 1	GS Multivariable Calculus
Science	GS Calculus 2	GS Linear Algebra
	GS Biology 1	GS Biology 2
	GS Biology 1 Lab	GS Biology 2 Lab
	GS Chemistry 1	GS Chemistry 2
	GS Chemistry 1 Lab	GS Chemistry 2 Lab
	GS Physics 1	GS Physics 2
	GS Physics 1 Lab	GS Physics 2 Lab
		GS Statics
Technology/Engineering	GS Practicum in Engineering	GS Thermodynamics
Research	Hands-on research in science area of interest	Hands-on research in science area of interest

### Program Type

Transport

### Schools

Governor's School @ Innovation Park

# Governor's School and George Mason University Course Crosswalk

GS Course Names	George Mason University Dual Enrollment Option(s)	AP Exam Option	University Credit Transferability
GS Pre-Calculus	MATH 105	No	No
GS Calculus Fall and Spring	MATH 115 and MATH 116	Yes - Calculus BC	Likely - AP waiver equivalent course
GS Multivariable Calculus and Linear Algebra	MATH 215 and MATH 203	No	Likely - comparable course
GS General Biology 1/Lab	BIOL 103/ BIOL 105	Yes	Possible science elective
GS General Biology 2/Lab	BIOL 104/ BIOL 106	No	Possible science electives
GS Human Anatomy & Physiology	BIOL 124	Yes	Likely - AP waiver equivalent course
GS Microbiology/Lab	BIOL 245	No	Possible science electives
GS General Chemistry 1/Lab and GS General Chemistry 2/Lab	CHEM 211/ CHEM 212	Yes	Likely - AP waiver equivalent course
GS Introduction to Organic Chemistry/Lab	CHEM 104	No	Possible science electives
GS Environmental Chemistry/Lab	CHEM 155	No	Possible science electives
GS College Physics 1/Lab and GS College Physics 2/Lab	PHYS 243/ PHYS 244 and PHYS 245/ PHYS 246	Appropriate AP Physics Exam	Likely - AP waiver equivalent course, possible science elective for non-physics majors
GS University Physics 1/Lab and GS University Physics 2/Lab	PHYS 160/ PHYS 161 and PHYS 260/ PHYS 261	Physics C	Likely - University Physics
Engineering 1	ENGR 107 and ME 151	No	Likely - comparable course
Engineering 2	ME 211 and ME 212 or 221 or 231	No	Likely - comparable course
Junior Year Research	COS 120	No	Possible science elective
Senior Year Research	COS 120	No	Possible science elective

## Schedule For Students Enrolling in Pre-Calculus Junior Year:

Semester	Strand	11th	12th
Fall	Math	MATH 105 (4 credits)	MATH 116 (3 credits)
	Science	CHEM 211 (4 credits) BIOL 103 (4 credits) PHYS 243 (4 credits) ENGR 107 (2 credits)	CHEM 104 (4 credits) BIOL 124 (4 credits) PHYS 160/161 (4 credits) ME 211 (3 credits)
Spring	Math	MATH 115 (3 credits)	MATH 215 (4 credits)
	Science	CHEM 212 (4 credits) BIOL 104 (4 credits) PHYS 245 (4 credits) ME 151 (2 credits)	CHEM 155 (4 credits) BIOL 246 (3 credits) PHYS 260/261 (4 credits) ME 212 or 221 or 231 (3 credits)

## Schedule For Students Enrolling In GS Calculus Fall/Spring Junior Year:

Semester	Strand	11th	12th
Fall	Math	MATH 115 (4 credits)	MATH 215 (3 credits)
	Science	CHEM 211 (4 credits) BIOL 103 (4 credits) PHYS 243 (4 credits) ENGR 107 (2 credits)	CHEM 104 (4 credits) BIOL 124 (4 credits) PHYS 160 (4 credits) ME 211 (3 credits)
Spring	Math	MATH 116 (4 credits)	MATH 203 (3 credits)
	Science	CHEM 212 (4 credits) BIOL 104 (4 credits) PHYS 245 (4 credits) ME 151 (2 credits)	CHEM 155 (4 credits) BIOL 246 (4 credits) PHYS 260 (4 credits) ME 212/221/or 231 (3 credits)