



Governor's School for Science, Math & Technology

2020-2021	Mountain Vista Governor's School At-a-Glance
Mission	The mission of Mountain Vista Governor's School is to present a research-based, technology-enhanced, integrated program in mathematics, science, and the humanities. The program will challenge students to reach their full potential as independent thinkers capable of assuming leadership roles in a constantly changing global society.
School Day	<ul style="list-style-type: none"> • 4.5 hour Governor's School daily instruction • 7:30 a.m. - 11:00 a.m.- student on-site day • 1 day a week for Focused Learning Experiences (FLEX) e.g. seminars, field experiences, special events • Web-communication systems to provide additional instructional time
Yearly Schedule	<ul style="list-style-type: none"> • Yearly academic calendar designed for best fit with participating divisions' calendars • Web-communication systems utilized when some students cannot be present due to weather, holidays, or other circumstances
Number of Students and Grade Levels	<ul style="list-style-type: none"> • Middletown Site—100+ high school students • Warrenton Site—100+ high school students • Grades 10-12
Site Description	<ul style="list-style-type: none"> • Two sites at Lord Fairfax Community College (LFCC) <ul style="list-style-type: none"> ▪ Fauquier Campus to serve Culpeper, Fauquier, and Rappahannock ▪ Middletown Campus to serve Clarke, Frederick, Warren, and Winchester City • Sites connected by technology for two-way interaction among teachers and students • Lab facilities to support project-based and technology-enhanced learning opportunities
Curriculum Focus	<ul style="list-style-type: none"> • Science, Mathematics, Humanities, Research • Emphasis on interdisciplinary connections • Scholarly research with authentic application • Collaboration among faculty and students with community partnerships • Technology integration in all aspects of learning • Opportunity to earn over 50 hours of college credit in three years through dual enrollment as well as take selected AP examinations
Instructor Qualifications	<ul style="list-style-type: none"> • Content-area expertise with extensive teaching experience • Advanced degrees including gifted education training/endorsement
Diploma/Transcripts	<ul style="list-style-type: none"> • School Division diploma with Virginia Academic-Year Governor's School Seal • School Division transcript in addition to LFCC transcript for dual enrolled courses • Opportunity to earn an Associate's Degree from LFCC with high school graduation
Guidance Services	<ul style="list-style-type: none"> • College admission and scholarship counseling provided by MVGS counselors in addition to base school counseling support
Community Support	<ul style="list-style-type: none"> • Lord Fairfax Community College • MVGS Foundation 501(c)(3) and MVPTO (parent support group)
Summer Programs	<ul style="list-style-type: none"> • New Student Orientation (August 2019) • Summer Enrichment Opportunities
Distance Learning	<ul style="list-style-type: none"> • Web-communication to expand time for student-teacher interaction • Possible use of on-line courses to meet individual needs • Virtual/community research experiences to enhance classroom learning environment
Application/Selection	<ul style="list-style-type: none"> • Standard Application Packet using a multi-criteria format • School divisions' selection committees select students to attend
Transportation	<ul style="list-style-type: none"> • School divisions provide transportation from base schools to LFCC

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Most up-to-date information available at www.mvgshome.org

MVGS Three Year Program

Rising 10th graders will attend MVGS for three years and will choose the science strand option during the 10th grade year. Most courses will be available to be dual enrolled for college credit through LFCC pending staff endorsements.

Prerequisites: Geometry; Algebra II Honors (prerequisite for Math Analysis) Co-requisites: General Biology

	Math	Science	Humanities	Research
First Year 10th Grade	<i>MVGS Math Analysis</i>	<i>*MVGS Chemistry 1</i>	<i>MVGS Humanities 10/English 10</i>	<i>MVGS Research 1: Fundamentals</i>

MVGS offers two science focus options for 11th and 12th graders: Physics/Engineering or Biology/Life Science.

Option I: Physics/Engineering Focus

Prerequisites: Math Analysis

	Math	Science	Humanities	Research and Elective
Second Year 11th Grade	<i>*MVGS Calculus 1</i>	<i>*MVGS Physics 1: Mechanics</i>	<i>*MVGS Humanities 11/English 11 (Prepares students for AP English Language assessment)</i>	<i>*MVGS Computer Science 1 or *MVGS Psychology or *MVGS Economics (offered alternate years) which includes MVGS Research 2: Individual Research Project</i>
Third Year 12th Grade	<i>*MVGS Calculus 2/3: Multivariate</i>	<i>*MVGS Physics 2: Electricity and Magnetism</i>	<i>*MVGS Humanities 12/ US Government</i>	<i>Computer Science 1* or 2 or *MVGS Psychology or *MVGS Economics (offered alternate years) which includes MVGS Capstone Project</i>

Option II: Biology/Life Science Focus

Prerequisites: Math Analysis, General Biology, Chemistry

Co-requisites: recommend Physics either year

	Math	Science	Humanities	Research and Elective
Second Year 11th Grade	<i>*MVGS Statistics</i>	<i>*MVGS Biology 1: Collegiate Biology</i>	<i>*MVGS Humanities 11 /English 11 (Prepares students for AP English Language assessment)</i>	<i>*MVGS Computer Science 1 or *MVGS Psychology or *MVGS Economics (offered alternate years) which includes MVGS Research 2: Individual Research Project</i>
Third Year 12th Grade	<i>*MVGS Calculus 1</i>	<i>MVGS Biology 2: Advanced Topics</i>	<i>*MVGS Humanities 12/ US Government</i>	<i>Computer Science 1* or 2 or *MVGS Psychology or *MVGS Economics (offered alternate years) which includes MVGS Capstone Project</i>

*Course prepares students for an AP assessment.

Note: MVGS Economics will fulfill the graduation requirement for Economics and Personal Finance