

Mount Vernon High School Home of the Majors

"Majors achieve and thrive together with purpose and pride."



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P.R.I.D.E.	IB Learner Profile	WITHIN OUR SCHOOL
Preparation	<ul style="list-style-type: none"> • Communicators • Inquirers • Knowledgeable • Reflective • Thinkers 	<ul style="list-style-type: none"> • Majors walk with a purpose and; with the goal of arriving to class on-time. • Majors aim to • Majors are available to engage in all aspects of the learning process. • Majors advocate appropriately when they need assistance (academic, behavior, social/emotional). • Majors communicate with teachers and plan in advance for when they are not in class and to follow up on lessons missed.
Respect	<ul style="list-style-type: none"> • Balanced • Caring • Communicators • Principled • Reflective 	<ul style="list-style-type: none"> • Majors use appropriate tone of voice, word choice/language and body language. • Majors are mindful of their environments and conversations. • Majors respect the boundaries and personal space of others. • Majors greet each other and return greetings to others. • Majors follow the expectations set forth by teachers in their classrooms & the SR&R.
Integrity	<ul style="list-style-type: none"> • Balanced • Communicators • Open mindedness • Principled 	<ul style="list-style-type: none"> • Majors are truthful and courageous enough to communicate with staff/peers. • Majors are responsible and accountable for their actions and success. • Majors are mindful of others and respect diverse perspectives. • Majors are aware of their behaviors and how their behaviors can impact others.
Determination	<ul style="list-style-type: none"> • Communicators • Inquirers • Knowledgeable • Risk-Takers 	<ul style="list-style-type: none"> • Majors are committed and present in the moment. • Majors follow through with assigned tasks. • Majors complete tasks to the best of their abilities. • Majors persevere through difficult situations, tasks, conflicts and roadblocks and promptly communicate with teachers/staff for assistance.
Excellence	<ul style="list-style-type: none"> • Balanced • Inquirers • Communicators • Knowledgeable • Reflective • Risk-Takers 	<ul style="list-style-type: none"> • Majors show maximum effort in all that they do. • Majors strive to create balance between school and home and minimize distractions. • Majors self-reflect as they grow and develop into life-long learners. • Majors are able to self-regulate their actions in order to accomplish goals. • Majors are team players and are always willing to lend a hand.



Admin and Counselors

(Shift to the Alpha Model)

Admin <i>Administrador</i>	Alpha <i>Asignación por Apellido</i>
Karen Boyd	A-Der
John Shaffer	Des-Lay
Lashonda Reed	Laz-Ram
Gina Brooks	Ran-Z
Adrian Williams	CSS & STEP

New Alpha <i>Nueva Alfa</i>	School Counselor <i>Consejero/a Escolar</i>
A-B	Bryce Green
C - Ev	Niasharee Frater
Ew-Hop	Ericka Jeter
Hoq-Mc	Mary McAlevy
Md-Pie	Camille Moore
Pif-Sli	Melissa Mentzel
Slj-Z	Paul Guillion
CSS & STEP	Karen Mazzocoli
ESOL Level 1 and 2	Catherine Samper

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Mrs. Fernando

epfernando@fcps.edu

- I teach Algebra 2 with Trigonometry Honors, Precalculus and Calculus Dual Enrollment.
- This is my 7th year in MVHS and my 29th year altogether.
- I completed my Bachelor and Masteral degrees and PhD units in the Philippines.

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Algebra 2 with Trigonometry Honors

Students enrolled in Algebra 2 are assumed to have mastered those concepts outlined in the Algebra 1 standards. A thorough treatment of advanced algebraic concepts will be provided through the study of functions, equations, inequalities, systems of equations, polynomials, rational and radical equations, complex numbers, and sequences and series.

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Dual Enrollment Classes



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Dual Enrollment courses:

- are **official** Northern Virginia Community College courses
- are **actual** college credits and go on your **college transcript**
- take place in your high school during the school day
- are taught by your high school teacher who is also a NOVA instructor



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Benefits of Dual Enrollment



- Receive high school and college credits with one class
- Can avoid duplication of courses taken in high school and college
- Guaranteed college credit with a C or better, not based on a high stakes test like AP
- Facilitate a seamless transition from high school to college

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Benefits of Dual Enrollment



- Lower the cost of post-secondary education
- Allows students to use campus resources and participate in college events and activities
- Student who have participated in a dual enrollment program have higher high school graduation and college enrollment rates
- DE students have higher persistence and retention rates as well as higher GPAs in college

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Dual Enrollment Expectations



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- Students are expected to self-advocate and be an independent learner.
- Students must have good time management and study skills.
- College courses are academically challenging and are best for students who are ready to focus on academics.



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Dual Enrollment Expectations



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- Grades are part of a permanent college transcript.
- Grading policies of the college may differ from those of your high school.
- Follow your syllabus including all dates and deadlines.



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Precalculus Dual Enrollment

1st Semester: MTH 161 (3 units)

Presents topics in power, polynomial, rational, exponential, and logarithmic functions, and systems of equations and inequalities.

2nd Semester: MTH 162 (3 units)

Presents trigonometry, trigonometric applications including Law of Sines and Cosines and an introduction to conics.

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Calculus Dual Enrollment

1st Semester: MTH 263 (4 units)

Presents concepts of limits, derivatives, differentiation of various types of functions and use of differentiation rules, application of differentiation, antiderivatives, integrals, and applications of integration.

2nd Semester: MTH 264 (4 units)

Continues the study of calculus of algebraic and transcendental functions including rectangular, polar, and parametric graphing, indefinite and definite integrals, methods of integration, and power series along with applications. Features instruction for mathematical, physical, and engineering science programs.

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Recommended Supplies for Class

- School Issued or Personal Laptop (Fully charged and ready to use)
- Notebook

Students are recommended to BUY a Graphing Calculator (TI - 84+) for use in doing homework and extra practice at home. However, MVHS is not responsible for the loss or damage of your personal electronic devices, so bringing your personal calculator to school is at your own risk. A class set of graphing calculators is available for use in the classroom.

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Procedures and Routines

No one has the right to interfere with the teacher's ability to teach and the students' ability to learn.

I expect each student to act as young adult and they are and to follow the “Two R’s”

BE RESPONSIBLE and BE RESPECTFUL

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Attendance

ATTENDANCE IS CRUCIAL: YOU CANNOT LEARN IF YOU ARE NOT IN CLASS...

This class will be challenging. Come ready to learn everyday with appropriate assignments completed and required materials. Students absent from class will be required to access Schoology and DeltaMath to retrieve notes and other classroom materials. . If you are having difficulty, please come to office hours for extra help.

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Algebra 2 with Trigonometry Honors

Grade Determination

Tests - 45%

Quizzes - 30%

Other Assessments - 15%

Portfolio - 10%

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Precalculus and Calculus Dual Enrollment Grade Determination

Tests - 40%

Quizzes - 25%

Final Exam - 20%

Other Assessments - 15%

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NOVA Grading Scale

A= 100 - 90 B= 89 - 80 C= 79 - 70
D=69 - 60 F= 59 and below

NOVA grades and FCPS/MVHS grades often differ from each other.

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