

Mount Vernon High School Home of the Majors

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



#ProudMajors

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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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.



Introduce yourself

- My name is Neda Koszyk
- I have a Master's degree in IT and a Bachelor's degree in Computer Software Engineering
- I am starting my 1st year of teaching at Mount Vernon High School
- I teach Computer Science Programming; Cyber Security and STEM Design
- I love traveling and shopping

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CyberSecurity Curriculum Overview

- **Defining Cybersecurity**
- **Information Assurance**
- **Data Collection, Storage and Privacy**
- **Encryption**
- **OS and Virtualization**
- **Networking/ OSI Model**
- **How the Internet Works**
- **Hacking – Social Engineering/Malware**
- **Password Security**
- **Software Exploits/ Network Exploits**
- **Malware**
- **Cyber Defense**
- **Cybersecurity Laws**
- **Cybersecurity Ethics/Encryption**
- **Future Trends in Cybersecurity**

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Computer Science Programming Curriculum Overview

- **Creating Drawings**
- **Functions, Mouse Events, and Properties**
- **Mouse Motion Events, Conditionals, and Helper Functions**
- **More Conditional, Key Events, and Methods**
- **Complex Conditionals and More Key Events**
- **Groups, Step Events, and Motion**
- **New Shapes, Local Variables, and for Loops**
- **Math Functions, Random Values, and Nested Loops**
- **Types, Strings, and While Loops**
- **Lists and Returns Values**
- **2D Lists and Board Games**
- **Creative Project with an Introduction to Images and Sounds**

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STEM Design Curriculum Overview

- **Introduction (STEM Design Definition)**
- **Technical Drawing (English and Metric Scale/Isometric/Dimensions)**
- **CAD Concepts (Defining 7 steps of Engineering Design Process)**
- **CAD Applications (How to Work with TinkerCAD Application)**
- **Architecture (Designing a prototype)**

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Recommended Supplies for Class (STEM Design only)

- **Signed Cell phone policy & Syllabus papers**
- **STEM Design only:**
 - **Binder with paper**
 - **Pens/Pencils**
 - **All other materials will be covered by a \$25 Lab Fee**
 - **Students receiving Free and Reduced Lunch are omitted from Lab Fee given they provide appropriate documentation to the teacher.**

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Procedures and Routines for the Classroom

- **Attendance**
- **Summarize the last class**
- **Summarize the material for this class**
- **Split into groups for group activities**
- **Quizzes**
- **Break time**
- **Class work**

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Grading and Assessments

All grades will be posted on SIS and it is up to 4.0 scale

- **Classwork: 30%**
- **Projects (Assessments): 30%**
- **Quizzes: 30%**
- **Final: 10%**

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Attendance

- **Fairfax County Public Schools must record student attendance every school day.**
- **Parents should report student's absence to school any day that the student will be absent and/or unable to participate in the class. Please report the absence by calling Mount Vernon High School attendance line (703-619-3100) or email the school-designated attendance address.**

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