

## **Career and Technical Education Highlights for November 2022**

### **Career Experiences:**

#### ***Beginning Medical Assistant Job Shadows with Inova facilities***

Medical Assistant students at Falls Church Academy will have the chance to learn firsthand about the patient contact process Medical Assistants have when the students participate in the job shadow program with Inova Health Systems clinics starting in December. At the beginning of October, representative from Inova Health trained these students in HIPAA Compliance rules and spoke to them about clinical expectations and answered any questions they have about health care careers. Students enrolled in the Falls Church Academy Medical Assistant class have expressed career interests in everything from becoming surgeons, nurses, physical therapists, anesthesiologists, and psychologists. All course instruction, classroom speakers, field trips and course experiences are meant to build on skills and information about their interested career path and help them in their decision process.

#### ***Safe Teen Driving Program***

Linda Watkins, Inova Fairfax Injury Prevention/Outreach Coordinator and Safe Kids Fairfax County Coalition Coordinator, presented to students in the Criminal Justice and Emergency Medical Technology courses about safe teen driving. In her presentation she shared a touching video from a MADD representative who shared a personal story about the loss of her stepdaughter. In addition, students had the chance to try on “drunk goggles” and practice driving with a simulator to see how challenging it is to truly drive safely when under the influence. Students were touched by the video and shaken by the reality of this avoidable death. As future EMT’s, law enforcement and medical career professionals, they saw what they may witness if they happen to play a role in an accident with someone under the influence. At the end of the day, the hope is students will make good judgement when alcohol, drugs and driving ever become a collective factor in their lives.

#### ***CyberPatriot Competition Season Kicks-Off***

CyberPatriot's National Youth Cyber Defense Competition, the world's largest cybersecurity competition began last week with the first of four separate competition dates. Chantilly Academy had 14 total teams participate in round one. Students are challenged to find and fix cybersecurity vulnerabilities in virtual operating systems. Using a proprietary competition system, teams are scored on how secure they make the system. Top teams advance through the online round of competition, and the best of the best advance to the in-person National Finals Competition. Each team has two challenges during their six-hour competition period.

### ***FCPS Office of Cybersecurity Presentation for Cybersecurity Awareness Month***

In October, Mr. Tainiko Lowman from the FCPS's Office of Cybersecurity presented to Cybersecurity, Cloud Computing, and Network Administration students in academies as part of Cybersecurity Month recognition. Mr. Lowman provided some phishing training to students as well as discussing about careers with the FCPS Department of Information Technology in the Office of Cybersecurity.

The presentation concluded with a Q & A session and students were excited to see and catch up with Marshall Academy alum, Yevin Kariyawasam, who is interning with the Office of Cybersecurity while attending George Mason University. Thanks to Yevin for coordinating this presentation!

### ***Upgrade Electric Hires Student for Apprenticeship***

Matthew Poblador, owner of Upgrade Electric, located in Springfield, Virginia stopped by to see level 2 and 3 Electrical Construction and Engineering students to talk about careers and career advancement in the electrical field. Students learned about the importance of having a good work ethic and keeping their driving record clean. Students learned about how they can advance their careers and take advantage of opportunities to grow within a company. A student from the level 2 class at Edison Academy was offered a youth registered apprenticeship from Upgrade Electric after the student followed up with the employer.

### ***VDOT Transportation Career Fair***

On October 6<sup>th</sup>, Marshall Academy Auto Technology and Engineering students attended VDOT Transportation Career Fair at the Prince William Fair grounds. They participated in interactive exhibits and learned about the vast number of opportunities in the technology, construction, manufacturing, engineering, and law enforcement fields.

### ***Teachers for Tomorrow Students Teach Class***

In Teachers for Tomorrow class, Level 2 students are getting teaching experience providing lessons with activities to the level 1 students on the topics of stages of cognitive development from birth to teenage years, moral, psychosocial, and social cognitive development. The lessons include lecture as well as rotating through a series of activity stations to enhance learning acquisition for each topic taught.

### ***Family and Consumer Science:***

#### ***GMU Hospitality Professional Development***

On October 19<sup>th</sup>, students from Herndon HS, Hayfield SS, Mountain View HS, Mount Vernon HS, and Robinson SS participated in a George Mason University (GMU) Hospitality Professional Development event. The event was designed to educate and provide insights regarding careers in hospitality

management. FCPS students learned about the hospitality management curriculum, internship opportunities and a breadth of career opportunities related to areas such as hotel management, food & beverage management, meetings & conventions, destination marketing, event management and more. GMU faculty, advisors, staff, students, and a panel of hospitality industry experts engaged in breakout sessions with the FCPS students where questions were posed to gain a better understanding of career awareness within the field of Hospitality.

The event began with a tour of the Center for the Arts, there student had firsthand information about the set up and operation of a performance. This correlated with event management in the hospitality program. The tour was followed by a panel discussion of 5 experts in the field of hospitality. The experts included Mr. Ed Hoganson, Chief Financial Officer from Crestline Hotels, Jillian Heltzel, Vice President of HR Farmers Restaurant Group, Zoe Roberts, Membership Association Destination DC, Malene Ward, Independent Planner Phoenix Planning Group and Darian Johnson, Associate Director of Account Management Axios HQ. Students were able to ask questions and expand their knowledge of the options available to them in the field of Hospitality. A walk across campus brought the students to the newly opened IKE'S Food Hall where Chef Steve Pine and his staff presented food court options never before seen on a college campus. Lunch was followed by breakout sessions where students met with GMU professors and discussed topics related to Internships, Research to Practice, Advising, Technology, Building Your Resume. In all the event was provided purposeful information on topics that students needed to hear to elevate their career awareness.

## **Health and Medical Science:**

### ***NVCC Anatomy Lab Visit***

PT and OT students at Chantilly Academy recently attend a field trip to the Northern Virginia Community College Anatomy Lab. This unique and hands-on experience focused on kinesthetic learning with a fully preserved and previously dissected human cadaver and organs.

### ***Dental Lab Visit***

On October 14<sup>th</sup>, Level 2 Dental Careers and Level 1 Dental Careers students at Falls Church Academy had the opportunity to visit YM Dental Lab who provides dental prosthetic fabrication services to dentists and clinicians locally and nationwide. On this tour, students were taken through the entire lab to learn how dental prosthetics are fabricated and the creative work that goes into making the pieces fit the patient perfectly. Students also saw that patients with existing prosthetics can also have them modified at this lab to fit the persons changing dental needs. YM Dental Lab representatives talked to the students about the process dentists and clinicians go through to take the patient from initial exam to finished prosthetic and the part that dental labs play in creating the piece needed by the dental staff.

### ***GW School of Medicine / Medi Corps Immersive Learning Unit***

Health and Medical Sciences students at West Potomac Academy entered the futuristic world of learning focused on exploring the intricacies of the human body. Augmented reality, artificial intelligence (AI), and holograms are all being used to give FCPS medical science students the chance to get hands-on experience in a virtual setting. A 45-foot bus, or Immersive Learning Center (ILC), is a new educational program from the George Washington University School of Medicine & Health Sciences and Medi-Corps Program, aimed at helping high school students explore careers in the healthcare field.

As students step in front of one of the large screens on the bus, they are transported to a situation where a football player has broken his leg. Students can participate as the athlete is treated by EMS professionals and taken to George Washington University Hospital where he receives care from nurses, radiologists, pharmacists, and surgeons. The journey from the field to the hospital gives students a glimpse into the variety of medical professions required to treat a broken bone.

The ILC's first stop is the Governor's Health Sciences Academy at West Potomac HS, and will also travel to the Governor's Health Sciences Academy at Falls Church High School and the Governor's STEM Academy at Chantilly High School later this school year.

As students and staff become more familiar with the technology over the next few months, they will be able to choose activities that reinforce the curriculum being taught in the classroom.

### ***Pharmacy Technician Field Trip and Guest Speaker***

West Potomac Pharmacy Technician class took a field trip to the Apothecary in Old Town, Alexandria. Students experienced a tour learning historical information about the original apothecary, compounding, and the role of the pharmacist. They made lavender scented hand lotion to take with them.

Annovex COO, Ken Erickson, COO and Compounding Pharmacist, Ma Adaka, gave a presentation to Pharmacy Tech, level 2 students. They shared information about being an out-sourcing drug supplier, pharmacy tech compounding tasks, career opportunities with Annovex, and more. The students participated in a Kahoot Activity and the winners faced off in a contest to properly dress in PPE for the Annovex Clean Room.

### ***Hearing and Vision Screening Externships***

Medical Assistants participated as Hearing and Vision Screeners at Edison, Mount Vernon, and West Potomac High Schools. Students were trained and worked under the supervision of the Public Health Nurses, Fairfax County Health Department's School Health Program. Students are earning Externship Hours from this experience.

## **JROTC:**

Cadets are serving as ushers and guides to principals during their monthly meetings.

## **Marketing:**

### ***Marymount Guest Speaker***

Julia Ravindran, Fashion Design Professor, from Marymount University presented to marketing students at Chantilly High School on Tuesday, October 25th. She graciously spoke to the Fashion Club about Fashion Merchandising and Fashion Design careers. Later she spoke to Entrepreneurship 2 about other programs offered at Marymount. Programs included Entrepreneurship, IT, Business, Fashion Merchandising and Fashion Design. Additional topics that Julia spoke about were fashion trends and career options in today's workplace.

### ***Purple Espresso Kiosk***

A long-anticipated project, the Purple Espresso kiosk was recently relaunched. The collaborative project between Entrepreneurship and Carpentry exposed students in both programs to concepts in customer service, small business enterprise, and plenty of technical skills along the way. Purple Espresso offers a variety of coffee flavors to students and faculty before the start of the school day. An extension of this partnership will include our Culinary Arts program as they add freshly baked muffins to the business! We are incredibly proud of our talented and collaborative students at Chantilly Academy and Chantilly High School.

### ***Washington Commanders Sports Business Day***

On Thursday, October 13th Marketing students from Lake Braddock, Woodson and Hayfield High Schools participated in the Washington Commanders Sports Business Day at FedEx Field. The fun-filled day included a marketing competition, a panel discussion, and a tour of the stadium.

### ***DECA District Leadership Conference***

The DECA District Leadership Conference will be held virtually on Thursday, December 1. If you are interested in serving as a judge for this event, please complete the Judge Registration form. Judges will have from approximately December 2-5, 2022, to complete the evaluation process. If you have any questions or would like to learn more about this opportunity, please contact Amy Granahan.

### ***NFTE's National Business Plan Competition***

An entrepreneurship student at Falls Church HS, was awarded the opportunity to compete in NFTE's National Business Plan Competition in New York City with his business, NUGGETT. The student was a

semi-final finalist and made it to the semi-final round. Thirty-two businesses from around the country participated; eight were semi-finalists and three went on to the final round.

## **Technology and Engineering Education:**

### ***GMU Honeybee VR Field Trip***

Robinson Secondary Engineering students participated in the GMU Honeybee VR Field Trip on Monday October 25th. The project is focused on fostering engagement in STEM and interest in STEM careers using honeybees and innovative VR technology as a tool. It is part of a collaboration between two funded projects by NSF FoW-HTF and Sweet Virginia Foundation. It features Sarah Red-Laird, Founder and Director of The Bee Girl Organization, who is widely known for teaching kids, beekeepers, and farmers how to “love their bees.”

This immersive VR video is a 9-minute pilot entitled ‘Honeybee Field Trip’. Designed to enhance existing pollinator curricula taught in fourth grade classrooms, the video takes students on a virtual field trip to a farm and George Mason University apiary. Students learn from an expert beekeeper, take a deep dive into a hive, and even get to fly like foraging honeybees! We hope the video hooks students and teachers, sparking interest and curiosity in the life of honeybees that will fuel further learning.

### ***Virginia Department of Aviation’s Flight Program***

Lewis High School STEM Engineering students got to experience the Virginia Department of Aviation’s Flight Program by listening to guest speakers, sitting in an ICON A-5 amphibian aircraft, and virtually flying a plane. The ICON A-5 aircraft has two seats, is manufactured in the United States, and has folding wings that allow it to be easily trailered from one location to another. The aircraft, operated by the Virginia Department of Aviation and based on Richmond International Airport, is no longer flyable but is an excellent education platform.

Students learn about how aircraft fly and about aviation careers. Two students at a time are able to sit in the cockpit and learn about flight controls and the instrument panel. The ICON A-5 has participated in programs for students from K-12 as well as university students and adult organizations. Elementary grades 4 and 5 are especially encouraged to participate but the presentation is customized based on the age and previous knowledge of the group and is open to schools throughout the Commonwealth of Virginia.

### ***National Science Foundation’s STEAM Guitar Program***

Chantilly High School Engineering Systems students participate in the STEAM guitar program developed under National Science Foundation. Music for Life is their partner to facilitate implementation in the metropolitan DC area. Students learn the math and physics involved in the design and operation of a

guitar; they then apply this knowledge by building their own instrument and learning to play it. The high school program is based on an electric guitar.

### **Trade and Industrial Education:**

#### ***Carpentry***

Carpentry students from Chantilly Academy are currently working to fulfill a client order of a custom shed. The Level 2 students are designing and building the shed that will be delivered to the Davis Career Center. The Career Center program is designed to serve students with disabilities aged 18-22 years who require instruction through a modified curriculum focused on life and career skills.

#### ***Criminal Justice***

50 Criminal Justice students at Edison Academy visited the International Spy Museum during the month of October to learn about the many facets of national security that are protected through government intervention and the many methods used for intelligence gathering, detection and capture of criminals, and more.

#### ***HVAC***

HVAC Students learn about Class C fires and the use of Fire Extinguishers! Class C fires are something HVAC students may encounter in their work. They learned proper use of a fire extinguisher for putting them out during a class lesson on October 25th.