

Career and Technical Education Highlights for September 2022

Career Experiences:

This summer the FCPS Office of Facilities Management hired 15 students through the Trades for Tomorrow program. Students began work in June and many are continuing to work during the school year. Students have accepted positions in all 5 satellite facilities in the areas of electrical, HVAC, grounds, welding, and general maintenance. Three FCPS graduate students are now employed full-time with the school system.

Student Auto Sales:

FCPS Student Auto Sales Program had roughly \$320,000 in sales in the 2021-2022 school year.

STEM Engineering Student Placed 3rd in NOVA's FAB LAB Competition

A STEM Engineering junior placed 3rd in [NOVA's FAB LAB Design Challenge](#) in June. They designed a Study Buddy Organizer, which earned them an invitation to an in-person Awards Ceremony at the NOVA Fab Lab in June to be recognized for their achievement, to receive a fabricated version of their design (finalists only), and to receive their prizes and a tour of the Lab.

Criminal Justice Students Participate in Future Agents in Training (FAIT) Summer Camp

Two Criminal Justice 2 students participated in the Future Agents in Training (FAIT) summer camp sponsored by the FBI. They participated in presentations on topics including terrorism, cyber crime, public corruption, polygraph exams, evidence response, SWAT, and the day-to-day operations of a typical FBI office. Students also learn from special agents, intelligence analysts, language specialists, and professional staff about investigative tactics that include gathering evidence, interviewing witnesses, and assisting with cases.

Engineering & Security+ Student Interns with FDA at White Oak Research Facility

A student interned with the FDA researching spinal fusion. Their project focused on the design of the fusion cage and the other project was related to intervertebral spinal fusion screw fatigue. The project was related to bioengineering on a more mechanical aspect.

Entrepreneurship Student Interns with Clear Think Corporation

Entrepreneurship 2 student interned with consulting company, Clear Think Corporation. They worked with Clear Think Corp leadership to develop a website.

JROTC:

A HUGE congratulations goes out to the JROTC team from Lake Braddock SS! They are the 1st place winners of the JROTC Army Academic Bowl Championship held this past summer in Washington, D.C. on June 24-28, 2022. The Academic Team were tested on their knowledge of core curriculum such as math, science, and language arts as well as current events, citizenship, leadership skills, and financial literacy. They had to battle 31 other top Army programs from across the nation. The JROTC Leadership and Academic Bowl is a nationally recognized competition created exclusively for JROTC students. By participating, cadets learn the values of citizenship, academic competition, and college opportunity. The competition creates tremendous opportunities for JROTC cadets by allowing them to demonstrate leadership and academic abilities.

Marketing:

This summer, the South Lakes High School DECA chapter painted a picnic table for outside lunches.

Thank you to Anne and Paul Wardinski, Lake Braddock marketing teachers who took the Virginia DECA State Action team to various DECA events this summer.

Thirteen marketing teachers attended the Virginia Association of Marketing Educators (VAME) conference in Richmond, Virginia this summer.

Summer Enrichment Programs:

Tech Adventure Camp and CTE Summer Academy were a huge success! We had over 1,200 registrations and had a blast building skills and exploring CTE program areas for our 3 weeklong summer enrichment program.

- Official registration = 1,270 for both camps (last summer we had 998)
 - CTE Summer Academy = 604
 - Tech Adventure Camp = 666
- Guest Speakers and Visitors
 - Dr. Reid, FCPS Superintendent, visited camp site and toured all of our classes
 - Brian Cummins, a NASA Solar System Ambassador, showed the first images from the James Webb Space Telescope to the students taking Flight School in our CTE Summer Academy
 - Matt Bechtel, WBL Educational Specialist, spoke with our Workforce Prep class about WBL opportunities in FCPS
- Lots of positive feedback from students and parents

- Innovative hiring allowed for FCPS Teachers for Tomorrow graduate and contract recipient to teach at camp which was a great experience
- A potential partnership with PennWest (formerly Cal U) to hire students in their teaching prep programs as student assistants, which gives their students more urban experiences and can also lead to teacher recruitment for FCPS, particularly in Technology and Engineering Education.
- Planning is already underway for 2023!

Work Based Learning:

2022-2023 Educate Fairfax Teacher Grants for Work-Based Learning (WBL) are Back!

This year marks the return of the Educate Fairfax Teacher grants program. Grants of \$1,000 - \$2,000 will fund innovative project ideas for developing career-connected experiences for students for the 2022-2023 school year. The main goal of the grant program is for school professionals to design opportunities that encourage students to reinforce and deepen classroom learning, explore future career fields, and demonstrate acquired portrait of a graduate (PoG) skills.

Work-Based Learning (WBL) Internship Teacher Full-Day Training at Marymount University

Marketing teachers, Business teachers, and Career Experience Specialists who teach and or support the coordination of internships at their high schools participated in a full-day training hosted at the Marymount Ballston campus. The training included opportunities to preview the promotional package for WBL, learn how to use labor market information, develop training plans for internships, and learn how other WBL experiences, such as School-Based Enterprises and Entrepreneurship can be developed. Marymount offered optional sessions to learn about their Fashion Design program and related WBL programs connected to these career paths. This school-based staff finished the day developing a plan of action for identifying and communicating with their school-based stakeholder groups and brainstorming project ideas for the Educate Fairfax WBL Teacher grant program. We can't thank our partners at Marymount enough for hosting us and providing opportunities to learn about the college-level programs and experiences.