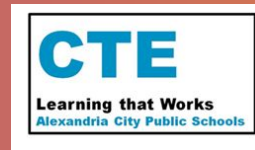




Alexandria City Public Schools

Career and Technical Education & Workforce Development Update

School Board Meeting
Thursday, February 22, 2024





Essential Questions

1. What is Career and Technical Education (CTE) and Workforce Development?
2. How is CTE data analyzed and used for continuous improvement?
3. How are the existing CTE Program area courses embedded in the new ACPS Academy structure?
4. What are the future CTE courses and labs?
5. How are Work-Based Learning (WBL) opportunities benefitting CTE students?



What is Career & Technical Education (CTE) & Workforce Development?

- Career and Technical Education (CTE) provides students with a variety of options to apply academic knowledge and earn the technical skills necessary for the workplace of the 21st century.
- The instructional program along with opportunities for industry credentialing, helps students prepare to be college, career, and civic ready.
- Students may have the opportunity to participate in work-based learning experiences where they can apply classroom knowledge.



Student Enrollment in CTE Courses Data

Years	2019-20	2020-21	2021-22	2022-23	2023-24
CTE Student Enrollment	6698	6399	8129	7620	6668
CTE Dual Enrollment	507	613	682	590	492



Currently includes:

- Three Academies
- 56 instructors
- 6 program areas plus JROTC
- 80 high school courses
- 9 middle school courses




2022 - 2023 Annual Performance Report (APR): Completer Highlight

Graduates who took at least two VDOE CTE courses in the same program area and earned a recognized credential.

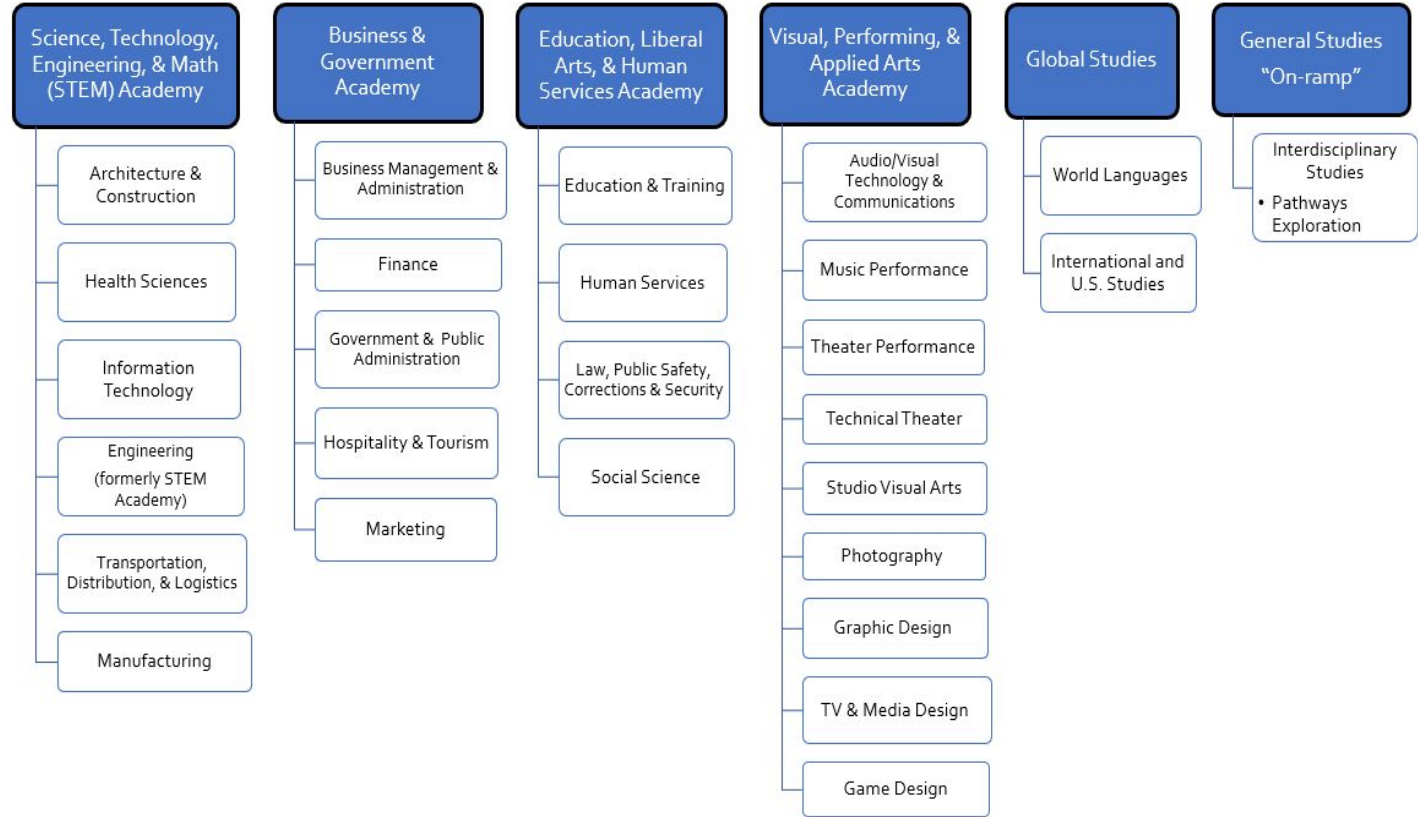
ex. Nurse Aide I and II with an earned Certified Nurse Aide credential

VDOE Target = 65.75%

All CTE Completers	CTE Special Populations
2020-2021	2020-2021
18.35% (58 of 316)	17.46% (44 of 252)
2021-2022	2021-2022
52.84 (270 of 511)	51.69% (183 of 354)
2022-2023 	2022-2023
87.59% (480 of 548)	86.76% (308 of 355)



2024-25 Academies and Pathways





Existing CTE Academies within the **NEW** Academies

Academy of Finance

Business and Government Academy

- 24-25 Finance Pathway
 - Finance Path courses

Governor's Health Sciences Academy

STEM Academy

- 24-25 Health Sciences Pathway
 - Surgical Technology Path courses
 - Nursing Path courses
 - Medical Laboratory Sciences Path courses
 - Sports Medicine Path courses
 - Emergency Medical Sciences Path courses
 - Biomedical Informatics Path courses

AC STEM Academy

STEM Academy

- 24-25 Architecture & Construction
 - Architectural Engineering Design Path courses
 - Construction Path courses
- 24-25 Information Technology
 - CyberSecurity Path courses
- 24-25 Engineering Pathway
 - Robotics Path courses
 - Aerospace Path courses
 - Electronics Path courses
 - Energy Path courses
 - Biotech Path courses
- 24-25 Manufacturing Pathway
 - Manufacturing Systems Path courses



CTE within the Academy Pathways

STEM Academy (continued)

- Information Technology
 - Computer Information Systems
- Transportation, Distribution & Logistics
 - Automotive Technology



Visual, Performing & Applied Arts Academy

- Photography
 - Commercial Photography
- Graphic Design
 - Graphic Design and Multimedia
- TV and Media Design
 - Television and Media Production
- Game Design
 - Game Design & Development



CTE within the Academy Pathways (cont.)

Business & Government Academy

- Business Management & Administration
 - Business Law
 - Accounting
- Finance
 - Economics & Personal Finance
- Government & Public Administration
 - Army JROTC
- Hospitality and Tourism
 - Culinary
 - Hospitality and Tourism Marketing
 - Entrepreneurship
 - Sports Marketing
- Marketing
 - Marketing
 - Fashion Marketing

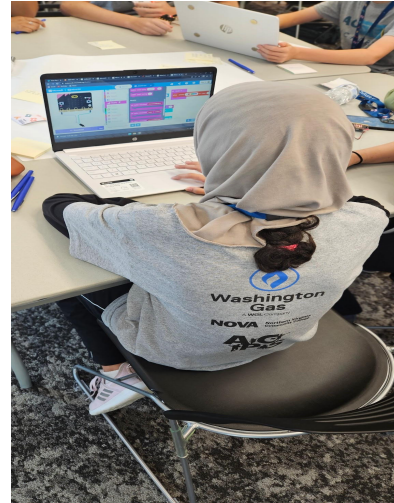
Education, Liberal Arts, & Human Services Academy

- Education & Training
 - Early Childhood Education
 - Teachers for Tomorrow
- Human Services
 - Cosmetology
 - Family and Human Services
- Law, Public Safety, Corrections, and Public Safety
 - Criminal Justice
 - Firefighting



New CTE Courses in 2024-25 Program of Studies

- Energy Supply: Sustainability & Efficiency
- Engineering Studies Seminar
- Teachers for Tomorrow II
- Sterile Processing II
- Construction
- Manufacturing
- Firefighting
- Game Design & Development



NOTE: Course offerings are based on staffing and student enrollment for the 2024-2025 school year.



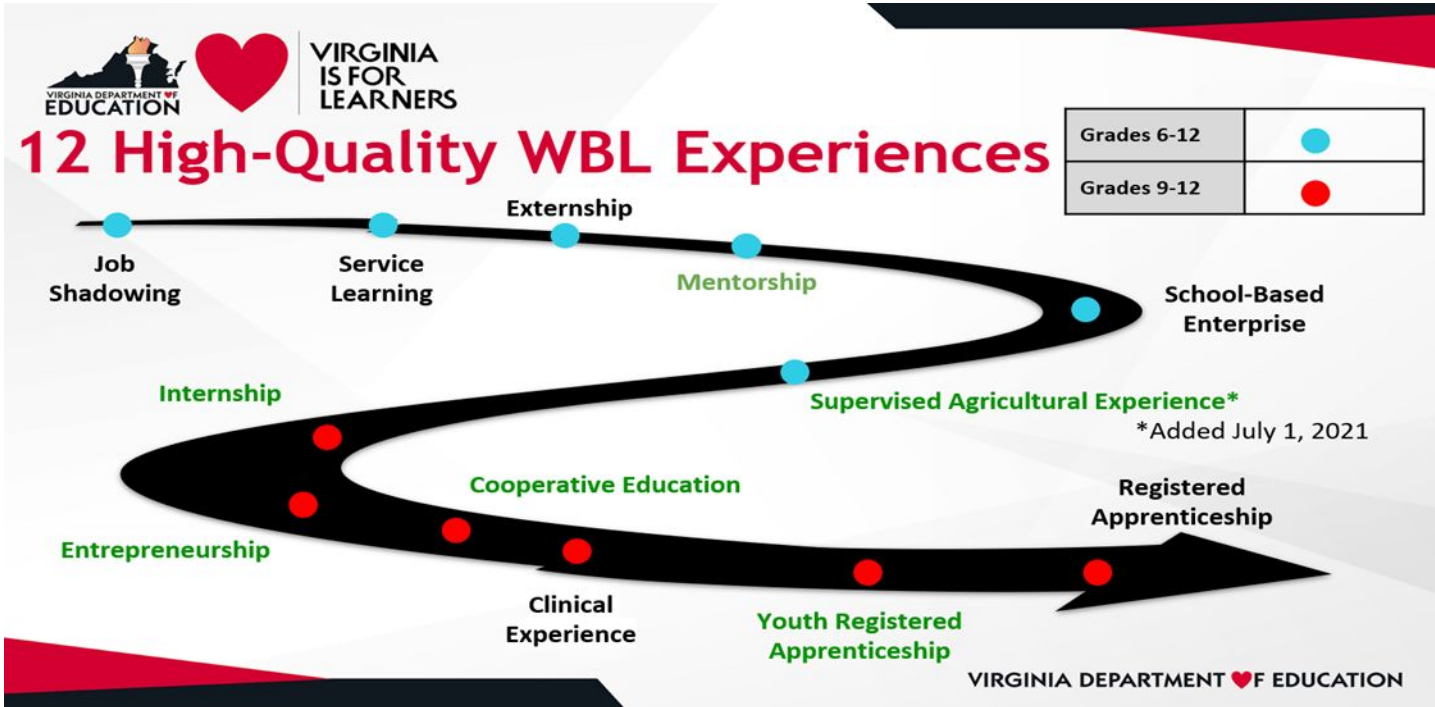
CTE Grants

2023 - 2024

- Perkins
 - State Equipment
 - Additional State Equipment
 - Industry Credential Exam
 - STEM H
 - Workplace Readiness
 - VDOE Innovative Program Grant
 - 2021-2023 Awarded \$200,000/2 year
 - Partnership with NVCC and Washington Gas
 - Developed two 5 year Applied Associates of Science paths
 - Architecture Technology A.A.S.
 - Engineering Technology A.A.S
 - VDOE Jobs for Virginia Graduates
 - Junior & Senior job/career assistance, WBL opportunity, and credential
 - VDOE Competitive Equipment
 - Equipment for GHSA
 - Battelle
 - Career Exploration and Summer STEM program
 - Go Virginia Grant
 - Partnership with Jason Learning
 - Will develop a 6 module MS *Career Investigations: Pathways to Your Future* program
- Participated in the Northern Virginia Regional Commission (NVRC) CTE Exchange to Germany
- Awarded a grant from Dominion Energy
 - 2 CTE Directors and 2 CTE Teachers
 - German education & training in the Energy Industry



Work-Based Learning (WBL) in Middle & High School



[VDOE Work-Based Learning Guide](#)



2022-23 Annual Performance Report (APR)

Graduates who took at least two VDOE CTE courses in the same program area and participated in a Work-Based Learning experience.

VDOE Target = 10.75%

Years	2020-2021	2021-2022	2022-2023
All CTE Completers	65.82% (208 of 316)	64.66% (333 of 515)	55.47% (304 of 548)
CTE Special Populations	67.46% (170 of 252)	64.43% (230 of 357)	54.37% (193 of 355)



CTE Business Partners

- Alexandria Economic Development partnership
- Collaborative Promo Solutions
- CVS
- City of Alexandria Fire and Rescue
- Paths Mentoring Program
- Woodbine Rehabilitation
- Aquilano Salon
- National Park Service
- US Department of Energy
- NASA
- Old Crows Association
- Chesapeake Bay Foundation
- Smithsonian
- US Patent and Trademark Office
- Washington Automotive Press Association
- National Museum of Natural History
- Smithsonian Environmental Research Center
- Navy Research Lab
- Institute for Defense Analyses

- Fair Chance Learning
- Amazon
- STEM for Her
- Genesys Works
- Bloomberg
- INOVA
- Goodwin Living
- Tiggbie
- Rubin Emerge & Aspire
- Northern VA Community College
- KPMG





February is National CTE Month

- CTE Month is in February of each year and allows us to raise awareness of the role that CTE has in readying learners for college and career success.
- CTE Month is also a time to recognize and celebrate the achievements and accomplishments of the CTE program and recognize our dedicated partners
- Virginia Governor's Office *Career and Technical Education Month* recognition



By virtue of the authority vested by the Constitution of Virginia in the Governor of the Commonwealth of Virginia, there is hereby officially recognized:

Career and Technical Education Month

WHEREAS, every student in the Commonwealth should graduate from high school prepared for success in life; and

WHEREAS, career and technical education allows for the exploration of career pathways, development of workplace skills, stackable certificates, and industry recognized credentials; and

WHEREAS, career and technical education is the foundation of a strong, well-educated workforce that fosters productivity in industry and contributes to Virginia’s leadership in the international marketplace; and

WHEREAS, career and technical education offers lifelong learning opportunities that provide individuals with marketable skills, informed career choices, and expanded post-secondary options that ensure higher earning potentials, job satisfaction, and long-term goals for their futures; and

WHEREAS, the cooperative and ever-increasing efforts between career and technical educators, administrators, and representatives of business and industry stimulate the growth of the Commonwealth’s economy by preparing students for careers in high-demand, high-skill, and high wage fields; and

WHEREAS, the national theme of Career and Technical Education Month “Celebrate Today, Own Tomorrow!” demonstrates the crucial role that career and technical education plays in readying Virginia students for successful careers;

NOW, THEREFORE, I, Glenn Youngkin, do hereby recognize February 2024, as CAREER AND TECHNICAL EDUCATION MONTH in our COMMONWEALTH OF VIRGINIA, and I call this observance to the attention of all our citizens.



Alexandria City Public Schools

Questions?

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