



# Career and Technical Education in CCPS

TOWNHALL MEETING  
NOVEMBER 7TH, 2023

# What is Career and Technical Education (CTE)?



Series of courses that are a graduation pathway



Focus on a certain career field



Offers expertise, experience, certifications, and college credits while in high school



Opportunities for internships, apprenticeships, and jobs!



10 pathways  
available in all high  
schools

8 are available through  
course selection process  
2 are available through  
application  
(AMP, MFRI)



17 pathways at  
McDonough & North  
Point High Schools

Students apply in the fall  
of 8th grade



6 pathways at  
Robert D. Stethem  
Educational Center

Students apply in the fall  
of 10th grade

## CTE in CCPS

33 DIFFERENT CTE  
PATHWAYS IN  
12 DIFFERENT CAREER  
CLUSTERS

## CTE PATHWAYS Organized By Career Cluster

Arts, Media, and Communication	Business Management and Finance	Information Technology
<ul style="list-style-type: none"> <li>• Graphic Communications</li> <li>• Interactive Media</li> </ul>	<ul style="list-style-type: none"> <li>• Business Management</li> </ul>	<ul style="list-style-type: none"> <li>• IT Networking Academy</li> <li>• Cyber Security</li> <li>• Computer Science</li> </ul>
Consumer Services, Hospitality, and Tourism	Health and Biosciences	Human Resources Services
<ul style="list-style-type: none"> <li>• Barbering</li> <li>• Culinary Arts (ACF)</li> <li>• Food and Beverage Management (ProStart)</li> <li>• Cosmetology</li> </ul>	<ul style="list-style-type: none"> <li>• Academy of Health Professions                             <ul style="list-style-type: none"> <li>◦ Certified Nursing Assistant</li> <li>◦ Pharmacy Technician</li> <li>◦ Physical Rehabilitation</li> </ul> </li> <li>• PLTW Biomedical Sciences</li> <li>• Biotechnology</li> </ul>	<ul style="list-style-type: none"> <li>• Maryland Fire and Rescue Institute (MFRI)</li> <li>• Criminal Justice</li> <li>• Child Development Professions</li> <li>• Teacher Academy of Maryland (TAM)</li> <li>• JROTC</li> </ul>
Construction and Development	Manufacturing, Engineering, and Technology	Transportation Technologies
<ul style="list-style-type: none"> <li>• Construction Design and Management</li> <li>• Heating, Ventilating, and Air Conditioning (HVAC)</li> <li>• Electrical Construction</li> <li>• Welding Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Drafting and Design</li> <li>• PLTW Pathway to Engineering</li> <li>• Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive Technician (NATEF)</li> <li>• Collision Repair</li> </ul>
Career Research and Development	Environmental, Agricultural, and Natural Resources	Apprenticeship Maryland
<ul style="list-style-type: none"> <li>• Career Research and Development (CRD)</li> </ul>	<ul style="list-style-type: none"> <li>• CASE: Natural Resources</li> </ul>	<ul style="list-style-type: none"> <li>• Apprenticeship Maryland (AMP)</li> </ul>

<b>8<sup>th</sup> Grade Fall/Winter Online Application Required</b>	<b>8<sup>th</sup> Grade Course <i>Selection</i> with Counselor</b>	<b>10<sup>th</sup> Grade Fall/Winter Online Application Required</b>	<b>10<sup>th</sup> Grade Course <i>Selection</i> with Counselor</b>
<ul style="list-style-type: none"> <li>Academy of Health Professions               <ul style="list-style-type: none"> <li>Certified Nursing Assistant</li> </ul> </li> <li>Automotive Technician</li> <li>Biotechnology</li> <li>CASE: Natural Resources</li> <li>Cisco: IT Networking</li> <li>Collision Repair</li> <li>Construction Design and Management</li> <li>Cosmetology</li> <li>Criminal Justice</li> <li>Culinary Arts (ACF)</li> <li>Cyber Security</li> <li>Drafting and Design</li> <li>Education Careers</li> <li>Electrical Construction</li> <li>Engineering</li> <li>Graphic Communications</li> <li>Welding Technology</li> </ul>	<ul style="list-style-type: none"> <li>Business Management &amp; Finance</li> <li>Computer Science</li> <li>Food and Beverage Management (ProStart)</li> <li>PLTW: Biomedical Science</li> <li>PLTW: Pathway to Engineering</li> <li>JROTC (branch varies by school)</li> <li>Teacher Academy of Maryland (TAM)</li> </ul>	<ul style="list-style-type: none"> <li>Academy of Health Professions               <ul style="list-style-type: none"> <li>Pharmacy Technician</li> <li>Physical Rehabilitation</li> </ul> </li> <li>Automotive Technician</li> <li>Barbering</li> <li>Heating, Ventilating, and Air Conditioning (HVAC)</li> <li>Interactive Media Production</li> <li>Maryland Fire and Rescue Institute (MFRI)</li> </ul>	<ul style="list-style-type: none"> <li>Business Management &amp; Finance</li> <li>Career Research and Development (CRD)</li> <li>Food and Beverage Management (ProStart)</li> <li>Teacher Academy of Maryland (TAM)</li> </ul>



# What determines the CTE pathways offered?

- ▶ **Local workforce needs**
- ▶ **Student and community interest**
- ▶ **CTE pathways must be approved by the Maryland State Department of Education**
- ▶ **Space requirements and equipment needs**



# What makes CTE pathways so special?

- ▶ **Directly tied to current workforce needs, trends, and skills**
- ▶ **Each pathway has a Program Advisory Committee (PAC)**
- ▶ **Opportunity to earn industry recognized credentials and/or college credits while in high school**
- ▶ **Opportunity for internships and apprenticeships**



# Blueprint for Maryland's Future: Impact on CTE

- ▶ All students College and Career Ready by 10th Grade- leaving more room in schedules for exploration
- ▶ All students enter a Post- College and Career pathway- CTE is one of 3 options
- ▶ 45% of graduates attain an Industry Recognized Credential (IRC) or experience an apprenticeship by 2031- NEED value added
- ▶ Robust College and Career Exploration starting in middle school- more students will know the CTE pathway that makes sense for them



# Elementary

- ▶ Xello lessons for self-exploration
- ▶ Will offer a virtual information session for parents in the Spring
- ▶ Career Days



# Middle School

Career Coaches in each middle school (new this year)

Develop career plans through self-exploration, information sessions, guest speakers, field trips

Working to have the career plan housed in Synergy

Xello lessons and personal portfolio

8th graders explore the different CTE pathways with the guidance of Xello

Parent information sessions, Open Houses

# High School

- CAREER ADVISORS IN EACH HIGH SCHOOL
- WEEKLY NEWSLETTERS
- COMPLETE YEARLY XELLO LESSONS
- 10TH GRADERS EXPLORE DIFFERENT CTE PATHWAYS AND OPPORTUNITIES AVAILABLE
- PARENT INFORMATION SESSION





# Post-College and Career Pathways

Goal: All students graduate completing one of the following:

- ▶ CTE Pathway
- ▶ AP Pathway
- ▶ Early College and/or Dual Enrollment





# Middle School Pilot Program

- ✓ Introduction to Engineering Design and Exploring Computer Science
- ✓ Allow for more room in students' schedule when in high school
- ✓ Earlier exploration for students prior to entering a Post-College and Career pathway
- ✓ Will expand to all middle schools next year

# Robust Career Exploration Program

- ▶ SY 23-24: Working with Tri-County Council and the College of Southern Maryland to enhance the scope and sequence for 6th through 12th grade students
  - ▶ Goal: Every student has an individual career plan that is updated yearly
  - ▶ Goal: Students make choices in high school that directly connect to their personal interests and strengths



Questions?

