CAREER AND TECHNICAL EDUCATION

Michael Luseni - Minneapolis Public Schools

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CTE | Why CTE in MPS

- Embed regular and explicit career exploration opportunities for all students in grades PreK-12, in alignment with Minnesota's World's Best Workforce legislation and regional workforce needs.

- Create an educational environment that acknowledges and encourages access to multiple pathways to successful career; certifications, apprenticeships, two year degrees from community and technical colleges and four year degrees or direct into employment.

- Equitable access to all specialized CTE pathways regardless of race, economic status, circumstance, or ZIP code.
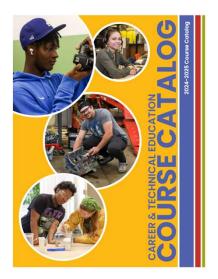
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CTE | Coursetaking Options

16 different CTE Pathways

Over 65 Classes

3 different learning models

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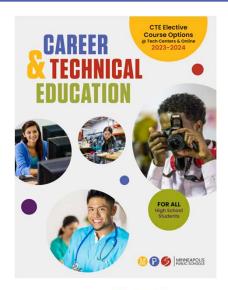Urban Education. Global Citizens.

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CTE | Career Pathways

- Agriculture
- Automotive - Collision
- Automotive - Engine Repair
- Business
- Computer Programming
- Cybersecurity
- Construction
- Education
- Engineering
- Healthcare - Patient Care
- Healthcare - Emergency Medical Responder
- Law & Public Safety
- Machine Technology
- Media Arts
- Robotics & Drone Technology
- Welding

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Career Conversation Starters

Salary Range - Education Requirements - Course Options - Course Descriptions

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CTE | CTE Tech Centers - Pathways

Edison Tech Center
- Business
- Law & Public Safety
- Agriculture

North Tech Center
- Computer Programming
- Cybersecurity
- Healthcare - Emergency Medical Responder
- Education
- Engineering
- Media Arts
- Robotics & Drone Technology

Roosevelt Tech Center
- Automotive - Collision
- Automotive - Engine Repair
- Construction
- Healthcare - Patient Care
- Machine Technology
- Welding

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CTE | Learning Models

In-person at one of three CTE Tech Centers
- Courses are offered in 2-hour blocks; A.M. and P.M.
- CTE Tech Centers are co-located at North, Edison, and Roosevelt High School.
- Free transportation to and from their classes at the Tech Center

Asynchronously Online
- Courses are available at every high school any period of the day.
- No transportation required.
- Fits conveniently into a students schedule

In-person at Student's School
- In 2023-2024 each high school will also have the ability to offer work-based learning classes at their location. These courses include: Investigating Careers, Career Planning & Development, and Career Work Experience.
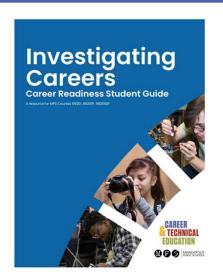
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CTE | Career Exploration

Students also explore careers through our Work-based Learning courses.

- Investigating Careers
- Career Planning & Development
- Personal & Professional Skills
- Career Work Experience/Internships

Investigating Careers
Career Readiness Student Guide
A resource for MPS Courses 99201, 99201P, 99201GP

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CTE | Benefits of CTE Tech Center Model

- Improved graduation rates for most at-risk youth
- Maximizes resources (i.e. financial, staff, material, equipment) and leverages community relationships by creating agile learning centers easily adapted to changing enrollment trends, student interest, workforce needs, and community support
- Incorporate graduation requirements of fine arts, math, science and/or language arts into CTE pathways to maximize student experience and replicate real-world application of how foundational academic skills are applied in multi-disciplinary project-based learning.

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CTE | Benefits of CTE Tech Center Model, cont'd

- Opportunity to be immersed in professional studies related to personal career interests, preparing them for career success in ever-evolving high tech, high skill, local/global economies.
- Equitable access to all MPS Career Pathway programs via city-wide enrollment options.

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CTE | Pathway Example - Healthcare

- **Multiple Onramps to Healthcare Careers**
  - Patient Care
  - Emergency Medicine
  - General Practice
- **Major investments in unique, industry grade equipment**

Simulated Ambulance

3D Virtual Dissection Table

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CTE | Pathway Example - Cybersecurity

Palo Alto Networks Certified Cybersecurity Entry-level Technician (PCCET)

- Provides certification in foundational knowledge of industry-recognized cybersecurity and network security concepts as well as various cutting-edge advancements across all Palo Alto Networks technologies.

- Aligned with industry standards following the NIST / NICE (National Institute of Standards and Technology / National Initiative for Cybersecurity Education) workforce framework.

- Students leave our program certified and ready for employment.

paloalto
NETWORKS

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CTE | Pathway Example - Automotive

National Institute for Automotive Service Excellence (ASE) Entry-Level Certifications

- First step in building career credentials as an automotive service professional

- Aligned to an industry-recognized credential that indicates student's workforce readiness

- Collision Repair pathway

- Maintenance Light Repair pathway

- High School Internships for entry-level positions available with local industry partners for students 18 years or older
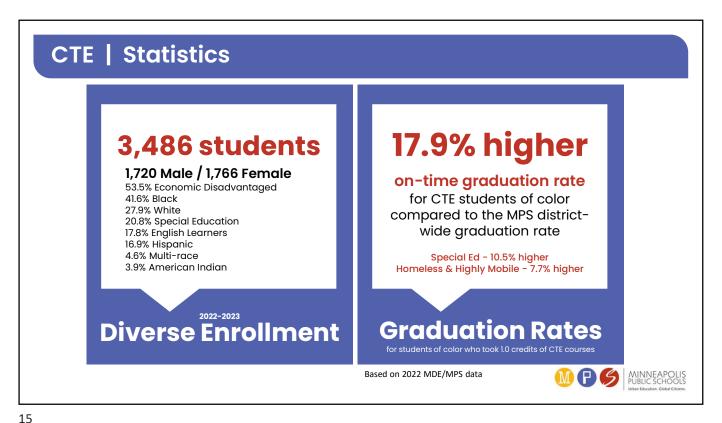

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Questions?

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CTE | Statistics

3,486 students

1,720 Male / 1,766 Female
53.5% Economic Disadvantaged
41.6% Black
27.9% White
20.8% Special Education
17.8% English Learners
16.9% Hispanic
4.6% Multi-race
3.9% American Indian

2022-2023
Diverse Enrollment

17.9% higher

on-time graduation rate
for CTE students of color compared to the MPS district-wide graduation rate

Special Ed - 10.5% higher
Homeless & Highly Mobile - 7.7% higher

Graduation Rates
for students of color who took 1.0 credits of CTE courses

Based on 2022 MDE/MPS data

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CTE | 2021-2022 Graduation Rate Reference Data

	2021-2022 District-wide 4-year Grad Rate	2021-2022 CTE Concentrator 4-year Grad Rate	
Overall	76.70%	87.07%	10.40%
American Indian or Alaska Native	50.40%	86.36%	36.00%
Black or African American	72.20%	86.71%	14.50%
Asian	86.60%	95.05%	8.60%
Native Hawaiian or Other Pacific Islander	N/A	N/A	N/A
White	91.60%	92.08%	0.50%
Hispanic	61%	73.55%	12.50%
Special Ed Services	52.10%	62.61%	10.50%
Homeless and Highly Mobile	50.60%	58.33%	7.70%

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How we promote CTE to our students & families

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CTE | Interest-based Course Finder Tool

Based on Holland Theory of Career Choice (RIASEC), the CTE Course Finder Tool will assist students as they self-identify their career interests and values aligned to course options available in MPS.

"...in choosing a career, people prefer jobs where they can be around others who are like them. They search for environments that will let them use their skills and abilities, and express their attitudes and values, while taking on enjoyable problems and roles."
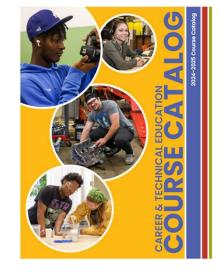
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CTE | 2024-2025 Course Catalog*

The following information about each course offering is included in the web-based course catalog and the CTE Course Finder Tool:
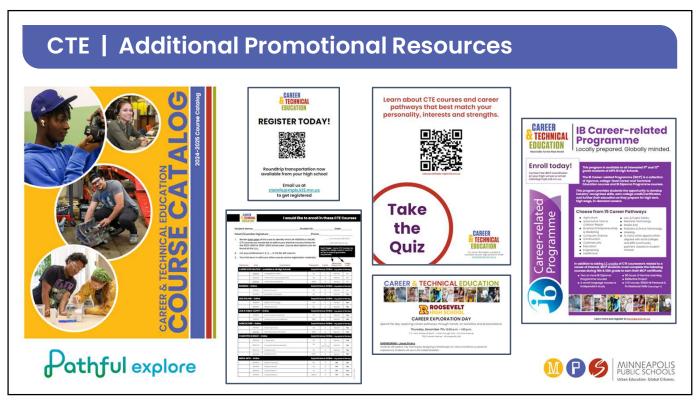
- CTE career pathway and course options
- Course descriptions
- Prerequisites
- College Credit Eligibility
- MPS graduation requirement alignment
- Course delivery model and location (in-person or online)
- How to register for courses

*Information available in English, Hmong, Pashto, Somali & Spanish

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CTE | Additional Promotional Resources

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