

ANN ARBOR PUBLIC SCHOOLS

# Career and Technical Education (CTE)

*Tom Pachera, PLTW & CTE Director*



Board of Education  
May 7, 2025



# What is a CTE program?

- Hands-on project-based learning – the best learning is by doing!
- Graduation credit options
- Real world experience
- Teachers from business and industry



# What is CTE in Ann Arbor Public Schools (AAPS)?

## Foundational Course Offerings to Build Exposure

- Y5 - 5th Grade Project Lead the Way (PLTW)
- 6th - 8th Grade Project Lead the Way (PLTW)

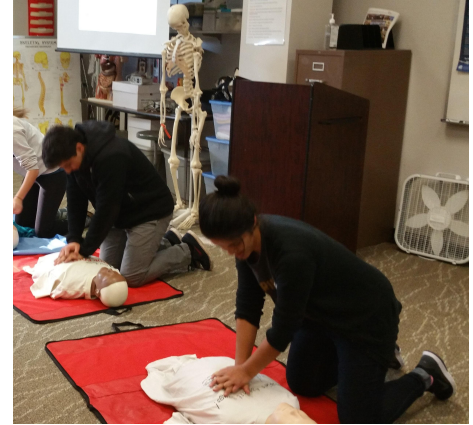
## CTE Courses in AAPS

- 9th - 12th Grade  
39 CTE Programs



# CTE Career Pathways Offered in AAPS

- Automotive
- Business
- Computer Science
- Construction Trades
- Cosmetology
- Culinary
- Cyber Security
- Digital Multimedia
- Engineering
- Finance
- Health Sciences
- Marketing





# 39 CTE Programs Offered in AAPS

- **Community**

- Computer Science
- Cybersecurity

- **Huron**

- Accounting/Finance
- Automotive Tech
- Business
- Comp Sci Programing
- Comp Sci Admin
- Cybersecurity
- Culinary
- Engineering
- Health Sciences
- Hospitality Management
- Marketing
- Web Design
- Work Based Learning

- **Pathways**

- Marketing

- **Pioneer**

- Accounting/Finance
- Automotive Tech
- Business
- Computer Sci Programing
- Computer Sci Admin
- Culinary
- Engineering
- Health Sciences
- Marketing
- Web Design
- Work Based Learning

- **Skyline**

- Accounting/Finance
- Business
- Computer Sci Programing
- Computer Sci Admin
- Cybersecurity
- Engineering
- Marketing
- Web Design
- Work Based Learning

- **Off Site**

- Cosmetology
- Homebuilding

# CTE Student Organizations in AAPS

**Develop leadership skills through Career and Technical Student Organization (CTSO)**

- **Business Professionals of America (BPA)**
- **Distributive Education Clubs of America (DECA)**
- **Health Occupations Students of America (HOSA)**
- **SkillsUSA**



# Automotive Courses

- Auto Service Technology 1 & 2
- Auto Service Technology Advanced
- Know Your Auto

Automotive Service Excellence  
Certifications (ASE):  
10 Standard Industry Certifications

**Extracurricular:** SkillsUSA (Regional,  
State & National competitions)



# Business Courses

- Business Fundamentals
- Business and Management (IB)
- Business Principles
- Computer Applications
- Entrepreneurship



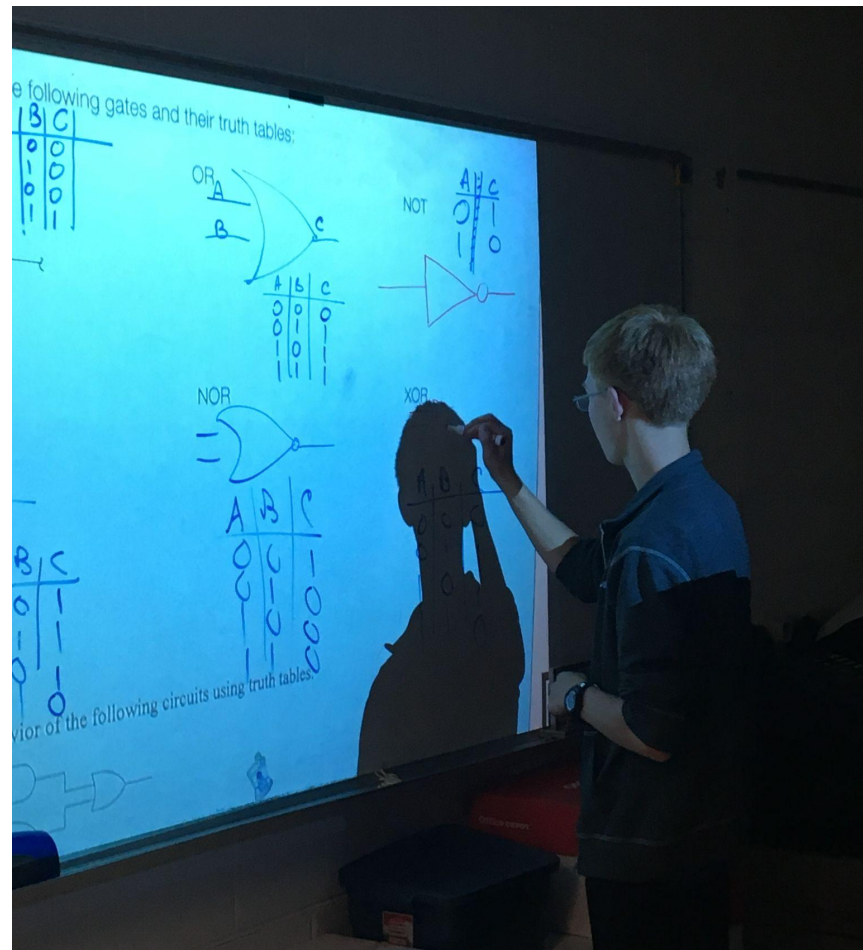
**Extracurricular:** BPA (Regional, State & National competitions)



# Computer Science Courses

- Advanced Topics In Programming
- Computer Science A (AP)
- Computer Science Principles (AP)
- Computer Science I & II (IB)
- Cybersecurity
- Introduction to Programming
- Web Page Design (IB)

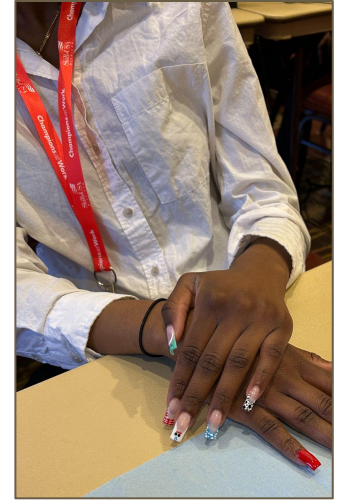
**Extracurricular:** Cybersecurity & Coding Competitions



# Cosmetology Courses

## Cosmetology (11th & 12th)

- Huron Valley Beauty Academy
- 2 years + 1 summer = 1500 hours  
(State of MI Exam)



**Extracurricular:** SkillsUSA (Regional, State & National competitions)

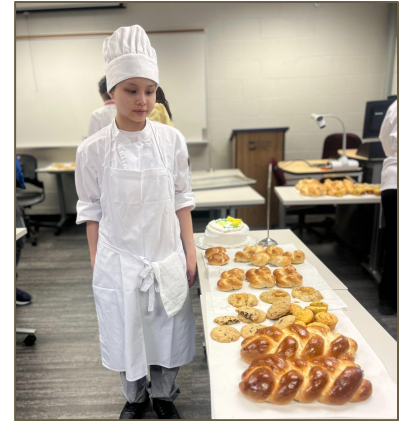
# Culinary Courses

- Baking and Pastries
- Culinary Arts and Hospitality
- Foods and Nutrition
- Hospitality Today
- Multicultural Foods

*Other courses offered:*

- Parenting
- Interior Design - Art credit

**Extracurricular:** SkillsUSA (Regional, State & National competitions)





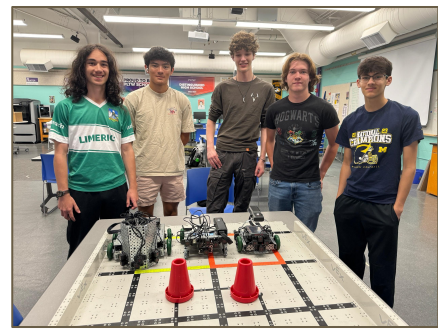
# Engineering Courses

- Engineering Capstone
- Engineering Design (IB)
- Principles of Engineering (IB)

*Other courses offered:*

- Aerospace Engineering
- Computer Integrated Manufacturing
- Digital Electronics

**Extracurricular:** Invention Convention and MITES (Regional, State, & National competitions)





# Finance Courses

- **Accounting 1 & 2**
  - Fourth Year Math credit
  - Microsoft Excel Certifications
- **Personal Finance 1 & 2**
  - Fourth Year Math credit

**Extracurricular:** BPA (Regional, State & National competitions)



# Health Science Courses

- Advanced Health Science Clinical
- Advanced Health Science Technology
- Health Sciences Clinical
- Health Sciences Principles
- Health Sciences Technology

**Extracurricular:** HOSA (Regional, State & National competitions)





# Homebuilding Course

## Homebuilding (11th & 12th)

- Work with Union Trades at the homebuilding site to build a house start to finish in 1 year
- *10 hour & 30 hour OSHA Certification available*
- Fourth year Math and Arts credit
- *This year's home is 3,600 square feet of finished space, 5 bedrooms, 4.5 baths, and will list for over \$700K.*

**Extracurricular:** SkillsUSA competition (Regional, State & National)



# Marketing Courses

- Advanced Marketing
- Marketing Education (IB)
- School Store Operations
- Sports & Entertainment

**Extracurricular:** DECA (Regional, State & National competitions)





# Recent CTE Additions

## 2024-2025

- **Computer Programming (Community)**
- **Cybersecurity/Information Assurance (Community)**
- **Engineering Technology (Pioneer)**
- **Hospitality & Tourism Management (Huron)**

## 2023-2024

- **Computer Programming (Pioneer, Skyline, Huron)**
- **Computer Systems Administration (Pioneer, Skyline, Huron)**
- **Cybersecurity/Information Assurance (Skyline)**
- **Web Design (Skyline)**
- **Engineering Technology (Huron)**

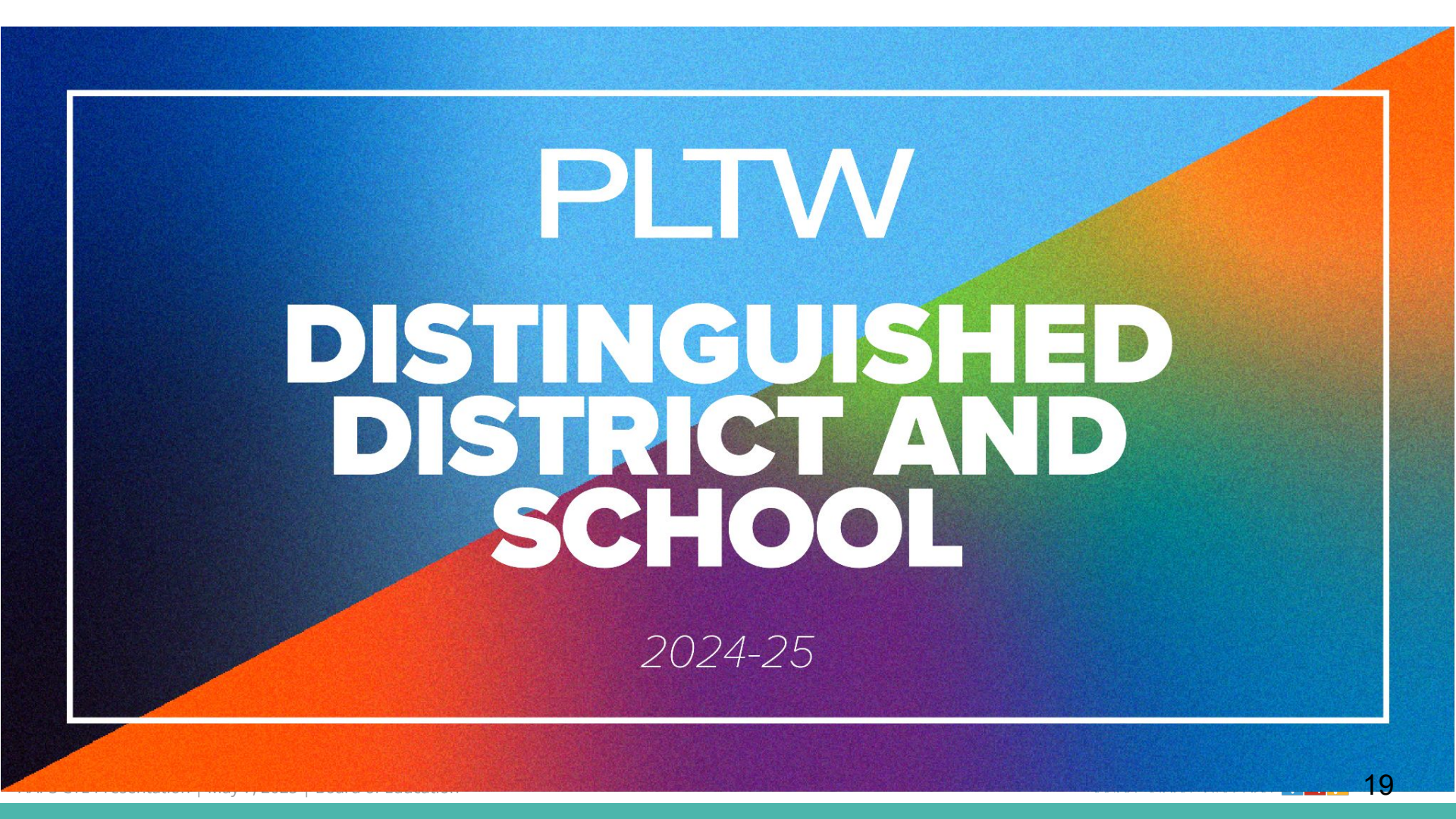
# Coming Soon to PLTW/CTE

## 2025-2026

- **Fundamentals of Construction (Skyline)**
- **PLTW Flight and Space/ Drone Technology (A2 Open, A2 STEAM, Forsythe & Slauson)**

## Projected 2026-2027

- **PLTW Flight and Space/ Drone Technology (Clague, Scarlett, & Tappan)**
- **Natural Resources & Conservation (Freeman Environmental Center)**
- **Early Childhood Development**
- **Robotics Engineering**
- **Aviation/Drone Technology**

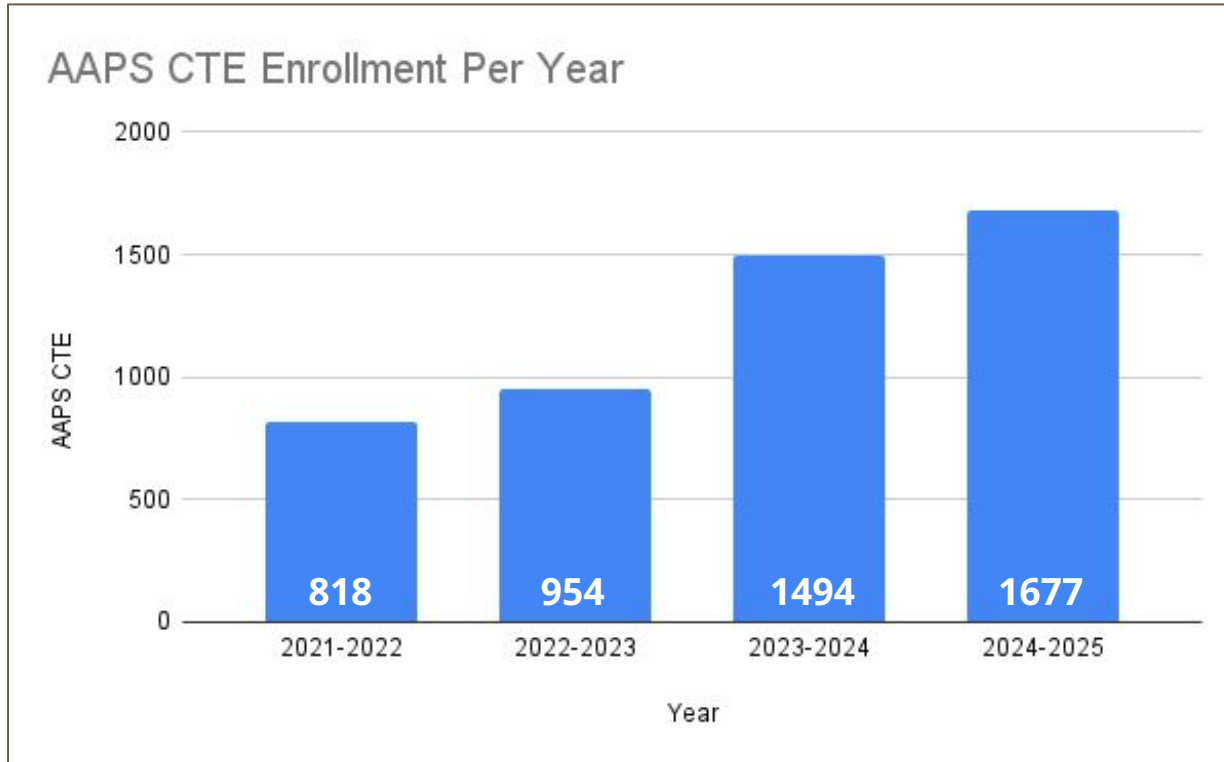


# PLTW DISTINGUISHED DISTRICT AND SCHOOL

2024-25

# CTE Enrollment in AAPS on the Rise

## 9th-12th grade students





All CTE programs are state approved  
and meet state CTE standards!

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