



Syracuse City School District Career and Technical Education

FOCUS Forum
May 23, 2025

Giving SCSD Students a Competitive Advantage

Current CTE Model at SCSD

- Nearly 40 Programs of choice
- Summer Bridge program for incoming 9th graders
- 9th – 12th pathway model
- Integrated academic credits including Career & Financial Management for all CTE programs
- College-level credits in CTE class; opportunity for advanced course work
- Industry recognized certifications and credentials
- Career coaching, work site visits, student enterprise, community service, job shadows & internships
- **Program completion leads to an ADVANCED REGENTS diploma distinction**



Removing Barriers

CTE at SCSD

- Equity at the heart of CTE
- English Language Learners Support
- Improving Special Education Support
- Learner's Permit & Driver's License Program
- Developing innovative programs with our Industry & Community Partners.



P-TECH Programs

Electrical Technology-ITC
Mechanical Technology-ITC
Computer Information Systems-PSLA
Remotely Piloted Aircraft Systems-PSLA
Health Sciences-Henninger
Clinical Lab Technology-Henninger
Health Information Technology-Henninger
Semiconductor Microchip Technology-Corcoran

- **Pathways in Technology Early College High School**
- NYS grant funded programs
- Partnership with SCSD, Post-Secondary and Industry
- Summer programming 9th grade – Year 6
- Pathway to an Associate Degree and first in line for jobs!
- Absolutely no cost to student or family



Post-Secondary Partnerships

Our Post-Secondary partners provide students with the opportunity to:

- Earn College Credit
 - Syracuse University
 - SUNY College of Environmental Science and Forestry
 - Dual Credit / College Credit Now @ OCC
 - On-campus classes @ OCC
- PTECH programs work towards AAS Degree
 - Onondaga Community College
 - SUNY Broome
 - MVCC



Business and Community Partnerships

How business/community partnerships drive our programs:

- Partnership and CTE Advisory Councils
- Volunteering as Career Coaches/Mentors
- Providing Internships/Shadowing
- Help our students learn Career Ready Practices



Career Ready Practices

Common Career Technical Core

- National standards, recognized by industry
- Skills to prepare students for college and career
- Learned and refined throughout each CTE program



CAREER READY PRACTICES

Apply Appropriate
**ACADEMIC &
TECHNICAL
SKILLS**



Act as a
**RESPONSIBLE AND
CONTRIBUTING
CITIZEN & EMPLOYEE**



Attend to
**PERSONAL HEALTH
& FINANCIAL
WELL-BEING**



COMMUNICATE
Clearly and Effectively and
with Reason

Consider the
**ENVIRONMENTAL,
SOCIAL &
ECONOMIC
IMPACTS of
DECISIONS**



Demonstrate
**CREATIVITY &
INNOVATION**



Employ Valid and Reliable
**RESEARCH
STRATEGIES**




Use
TECHNOLOGY
to Enhance
Productivity



Model
**INTEGRITY, ETHICAL
LEADERSHIP & EFFECTIVE
MANAGEMENT**



An icon of a stylized human figure walking and carrying a suitcase.
**Plan
EDUCATION &
CAREER PATH**
Aligned to
Personal Goals

Utilize
**CRITICAL
THINKING**
to Make Sense of
Problems and
Persevere in Solving
Them



**WORK
PRODUCTIVELY
IN TEAMS**
While Using
Cultural Global
Competence



Work Based Learning: Why It Gives Our Kids an Edge

- **Real-world application:**
 - Students can apply theoretical knowledge learned in the classroom to practical tasks in a real work environment, making learning more relevant and meaningful.
 - **Career exploration:**
 - Exposure to different roles and industries helps students identify potential career interests and make informed decisions about their future.
 - **Skill development:**
 - WBL allows students to develop both technical skills specific to their chosen field and soft skills like communication, problem-solving, time management, and teamwork.
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Work Based Learning: Why It Gives Our Kids an Edge

- **Networking opportunities:**
 - Building relationships with professionals in the industry can open doors to future job opportunities and provide valuable mentorship.
 - **Increased motivation:**
 - Hands-on experience can boost student engagement and motivation by making learning more tangible and relevant to their future goals.
 - **Improved employability:**
 - Gaining practical experience through WBL strengthens resumes and makes students more competitive in the job market. It allows them to know what employers are looking for in a high-quality employee.
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What the Data Tells Us

Students enrolled in CTE Pathways:

- Have higher GPA's than their non-CTE counterparts
- Report being actively engaged DAILY in their CTE class
- Attend school more often
- Obtain more college credit than their non-CTE counterparts
- Exceed credit requirements for graduation
- Have higher graduation rates
- Report feeling more prepared for the world post-graduation



What the Data Tells Us



Average GPA

*CTE HS Students vs. Non-CTE HS Students
2019SY to 2023SY*

■ Not CTE
■ CTE



Current Career and Technical Education Programs



High School Choice Programs

NEW*** Animation and Game Design

Automotive Technology

Barbering

Biotechnology

NEW*** Business

Entrepreneurship

Business Technology

Computer Forensics

NEW*** Construction Management

Construction Technology

Cosmetology

Creative Expression and Design

Culinary Arts

Cybersecurity

NEW*** Data Analytics

Electrical Trades

Emergency Medical Technician

NEW*** Entertainment Engineering

Fire/Rescue

Forensic Sciences

Geospatial Technology

HVACR Clean Energy

International Baccalaureate

Law Enforcement

Manufacturing Technology Pre-Apprenticeship

Media Communications

Medical Assisting

Natural Resources

NNDCC

NEW*** Performing Arts

NEW*** Robotics and Automation

NEW*** Semiconductor Manufacturing Technology
Urban Teaching Preparation

NEW*** Visual Arts

Welding Technology

SYRACUSE P-TECH

Electrical Technology

Mechanical Technology

Clinical Laboratory Technology

Health Information Technology

Health Professions

Computer Information Systems

Remotely Piloted Aerial

Systems/Drone Tech

Semiconductor Microchip Technology



Public Service Leadership Academy @ Fowler

14 Pathways

Barbering
Business Technology
Computer Forensics
Cosmetology
Cybersecurity
Electrical Trades
Emergency Medical Technician

Fire Rescue
Forensic Science
Geospatial Technology
Law Enforcement
Navy National Defense Cadet Corps

P-TECH Programs

Computer Information Systems+
Remotely Piloted Aircraft Systems+





Corcoran High School

5 Pathways

HVAC/R Clean Energy

Manufacturing Technology Pre-Apprenticeship

Urban Teacher Preparation

Welding Technology

P-TECH Program: Computer Chip Design & Production





Institute of Technology at Syracuse Central High School: 6 Pathways

Automotive Technology

Biotechnology

Culinary Arts

Media Communications

P-TECH Programs: Electrical Technology

Mechanical Technology





Henninger High School

4 Pathways

Medical Assisting

P-TECH Programs

Laboratory Science

Health Information Technology

Health Sciences





Nottingham High School 4 Pathways

Business Technology

Construction Technology

Creative Expression and Design

Natural Resources





FULL STEAM AHEAD!



STEAM Regional High School

Science Technology Engineering Arts Math

- First-ever STEAM High School in CNY
- STEAM-focused curriculum
- Open to students from SCSD and OCM BOCES component districts
- Located across from ITC (S. Salina and Adams St.)
- Offer sports, extracurricular, and after school programs
- State of the art facilities and equipment
- Renovated historic Lincoln Auditorium
- College course work
- Mentoring, internships and job shadows with top companies and arts organizations





Regional STEAM High School Opening Fall of 2025

7 CTE Pathways, 2 Fine Arts Pathways

Animation and Game Design
Business Entrepreneurship
Construction Management
Data Analytics

Music, Movie, Theater & Backstage Production
Performing Arts
Robotics and Automation
Semiconductor Manufacturing Technology
Visual Arts



Questions and Help



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