education that works

CINCINNATI PUBLIC SCHOOLS
CTE
CAREER & TECHNICAL EDUCATION

Experience the difference of a CPS Career Technical Education

experience
CPS Career Tech

Why CPS Career Tech?

Career and Technical Education (CTE) provides several avenues for students to explore what awaits them after high school. Through the numerous CTE programs in Cincinnati Public Schools (CPS), students have multiple opportunities to earn college credit, industry-recognized credentials, and participate in internships, pre-apprenticeships and other work-based learning activities.

CTE Pathways exist in nearly all high schools in CPS. Through the high school of choice lottery system, students can choose from over 20 pathways in which to enroll.

Participating in CTE programs provides students many benefits including:

- High graduation rates
- Clears paths to a chosen career
- Better student engagement
- Opportunities to earn college credit and industry-recognized credentials in every pathway
- Enhanced learning based on work experience and real-world applications

Career Technical Education (CTE) Career Pathways — students can earn numerous industry credentials in high school within the pathways:

A complete description of CPS high schools, as well as additional information about CTE, can be found in the Cincinnati Public Schools High School Guide and at cps-k12.org.

The CPS Academic Edge

Career and Technical Education experiences

Beyond the Tassel Series

The Beyond the Tassel speaker series was created as an opportunity to connect with students and families around critical topics associated with college and career attainment. The series is streamed online. Students and families get an opportunity to listen and ask questions of area experts in the college and career space.

Internships and Pre-apprenticeships

Several career areas include opportunities for internships and pre-apprenticeships, which equip students with real-life applications to what is being learned in the classroom. Internships offer paid experiences for students, which can lead to employment after graduation. Pre-apprenticeships offer students classroom learning in conjunction with work-based learning opportunities. Upon completion of a pre-apprenticeship, students complete valuable pathways towards graduation, including earning a 12-point industry-recognized credential.

Industry-recognized Credentials

An industry-recognized credential is a verification of a person's qualifications. These credentials are developed in partnership with employers and are fully recognized by the business community.

Earning an industry credential gives students experience and deeper learning based on practicing and applying their knowledge in work and employment settings. Students learn about workplace expectations and career pathways that lead to successful careers.

Industry-recognized credentials for CPS students include, but are not limited to, the following:

• American Welding Society Certified Welder
• Certified Phlebotomy Technician
• Child Development Associate
• CPR/First Aid
• Emergency Medical Technician
• Microsoft Office Specialist
• National Center for Construction Education and Research
• National Restaurant Association ServSafe
• State Tested Nursing Assistant
• Patient Care Technician
• Pharmacy Technician
• Physical Therapy Aide
• Pre-apprenticeships

To learn more about the industry-recognized credentials approved by the Ohio Department of Education.

Readiness Program

Level Up Grant

Thanks to a grant from Urban League of Greater Southwestern Ohio, CPS, Cincinnati-Hamilton County Community Action Agency and Easterseals TriState are offering **Level Up: Launch Your Future** for high school students and recent grads.

Learn more:
cps-k12.org/CareerBasedLearning.

Advanced Manufacturing Technologies

CPS high schools that have Advanced Manufacturing Technologies-based Career Tech programs:

Woodward Career Technical High School

Advanced Manufacturing is based at Woodward Career Technical High School. Interested in manufacturing? This program provides a solid foundation of the necessary technical and academic skills to administer the manufacturing process, including equipment, installation, tools and dies, logistics, inventory control, assembly, repair, quality and safety. A new focus includes manual machining for mills and lathes as well as CNC (Computerized-Numerical-Control).

Careers available in the Advanced Manufacturing pathway includes, but are not limited to, the following:

- Computer-Aided Drafting Technician
- Engineer
- Engineering Technician
- Line Operator
- Maintenance Technician
- Quality Technician
- Computer Numeric Control Technician (CNC)
- Certified Production Tech
- Welder
- Machinist

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

- American Welding Society (AWS) - Certified Welder
- Fanuc - Handling Tool Operation & Programming J2P-31- IACT Approved
- National Center for Construction Education and Research (NCCER) Core
- FANUC Certified CNC Machining Center Programming, Setup, and Operation
- FANUC Certified CNC Turning Center Programming, Setup, and Operation
- Occupational Safety and Health Administration (OSHA) 10-Hour Training

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

Salary Range*
$32,500 - $163,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Agricultural and Environmental Systems

CPS high schools that have Agricultural and Environmental-based Career Tech programs:

Aiken New Tech High School

Interested in working with animals or the food sciences? Then our Agribusiness and Production Systems Program might be right for you.

This program is ideal for students who:

• Enjoy working with plants and animals
• Are interested in the science of food
• Are passionate about protecting the environment

Clark Montessori High School

Horticulture is a big area of focus for Clark Montessori High School. This program focuses on plant and horticultural science as well as effective ways to grow and showcase landscape elements. Students who are interested in the management of plants would be interested in this program.

Gamble Montessori High School

This program pulls together a variety of disciplines — including biology, chemistry and physics — to teach students about the world of agriculture, plant and animal science, and the complex field of food science. Students will also benefit from leadership development, personal growth and career exploration.

Hughes STEM High School

The Zoo Academy is the only high school program in the country that pairs students with zoo professionals for daily hands-on work experience at the Cincinnati Zoo & Botanical Garden. Students take classes that prepare them for leadership roles in the fields of conservation, environmental science and plant and animal care.

Careers available in the Agricultural and Environmental Systems pathway include, but are not limited to, the following:

• Agriculture Engineer
• Agronomist
• Bee Keeper
• Botanist
• Conservation Planner
• Endangered Species Biologist
• Forest Health Specialist
• Landscaper
• Park Ranger
• Wildlife Officer
• Zookeeper

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

• Center for Innovative Food Technology Approved Food Industry Specialist
• National Association of Veterinary Technicians in American - Approved Veterinary Assistant
• National Center for Construction Education and Research (NCCER) Core
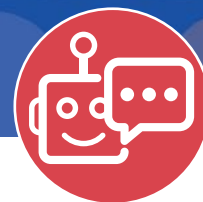• Center for Innovative Food Technology Approved Food Industry Associate

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

$

Salary Range*

$27,000-75,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

3

Arts and Communication

CPS high schools that have Arts and Communications Career Tech programs:

Are you drawn to the arts? There are tremendous career opportunities available to students in our Arts and Communications Programs.

These programs are ideal for students who:
• Can visualize projects in their mind
• Are interested in working in the theater or the arts
• Enjoy performing
• Are interested in computer graphics or computer animation

Oyler K-12 School
Media Arts

The Media Arts pathway prepares students by educating them in applying technical knowledge, skills and experiences in fields including cinema, animation, sound imaging design, virtual design, interactive design, as well as all forms of multimedia.

School for Creative and Performing Arts
Media Arts

The Media Arts pathway prepares students by educating them in applying technical knowledge, skills and experiences in fields including cinema, animation, sound imaging design, virtual design, interactive design, as well as all forms of multimedia.

Performing Arts

The Performing Arts pathway focuses on the direct creation of art and entertainment by students so that they can channel their inner creativity to show in outward performances. Students as performers become the medium of creative expression.

Visual Design and Imaging

Students in the Visual Design and Imaging pathway gain knowledge in media design, film and video production, broadcast journalism and photography. Students have the opportunity to use critical thinking and artistic creativity to solve problems.

Careers available in the Arts and Communication pathway include, but are not limited to, the following:

• Advertising
• Architecture
• Art
• Creative writing
• Film
• Graphic design
• Journalism and media
• Museum work
• Public relations
• Publishing
• Visual and Performing Arts (Acting, Dancing, Singing)

$

Salary Range*

$41,000 - $120,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

• Adobe Certified Professional - Dreamweaver CC
• Adobe Certified Professional - Premiere Pro CC
• Adobe Certified Professional - After Effects CC
• Adobe Certified Professional - Animate CC

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

Business

CPS high schools that have Business-based Career Tech programs:

Withrow University High School

The Business program at Withrow University High School guides students to develop understanding and skills in such areas as business law, economics, financial analysis, human resources management, marketing, operations, information management and strategic management.

Students also explore the global business environment by working with area businesses so that they can expand on their experiences by selecting a focus area, such as business management, finance, and logistics.

Dater High School

The Logistics and Supply Chain Management program at Dater High School guides students in all of the business-related aspects of how to facilitate the flow of goods from the point of origin to the point of consumption. Students will utilize technology to track supply chains and measure their effectiveness and efficiency. They also will identify opportunities to improve service levels, quality and costs through supply chains and select strategies for improving customer and supplier relationships. International business, business process analysis, project management, internal controls and compliance will be emphasized.

Careers available in the Business pathway include, but are not limited to, the following:

- Accountant
- Actuary
- Business Operations Manager
- Customer Service Representative/Manager
- Distribution Manager
- Financial Advisor
- Loan Officer
- Logistics/Supply Chain Associate/Analyst
- Marketing Coordinator
- Medical and Health Services Manager
- Office Manager
- Operations Research Analyst
- Production Analyst
- Project Coordinator/Manager
- Quality Control Manager
- Small Business Owner
- Statistician
- Training Specialist
- Transportation Manager
- Stock Broker
- Real Estate Broker

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

- RISE Up Customer Service and Sales
- RISE Up Retail Industry Fundamentals
- Entrepreneurship and Small Business Certification
- Lean Six Sigma Yellow Belt

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

Salary Range*

$28,000 - $78,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Construction Technology

CPS high schools that have Construction Technology-based Career Tech programs:

Woodward Career Technical High School

This program, offered at Woodward Career Technical High Schools, provides students with an introduction to the construction field. Students apply architectural and engineering principles to erect residential, commercial and industrial buildings. In the process, they learn how to read construction drawings, use hand and power tools, use personal protective equipment and much more. The skills they gain can be applied to constructing footings and foundations: framing floors, walls, ceilings, roofs and stairs; completing exterior and interior finishes; and repairing, restoring or remodeling existing structures.

This program is ideal for students who:
- Enjoy bringing architectural designs to life
- Are good with plans and blueprints
- Enjoy building and fixing things

Careers available in the Construction Technology pathway include, but are not limited to, the following:
- Electrician
- Facility Maintenance Technician
- HVAC Technician
- Plumber
- Power Line Technician
- Sheet Metal Fabricator
- Telecommunications Technician
- Heavy Equipment Operator
- Project Manager
- Site Manager
- Site Safety Coordinator
- Carpenter
- General Contractor
- Drywall Technician
- Brick, Block, Cement Mason
- Remodeler
- Pipefitter
- Cabinet Maker
- Structural Engineer

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

- Electrical Training Alliance Interim Credential
- National Center for Construction Education and Research (NCCER) Core
- Construction Craft Laborer

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

$

Salary Range*

$21,000 - $129,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Education

CPS high schools that have Education-based Career Tech programs:

Aiken New Tech High School

The Education program at Aiken New Tech High School guides students to learn the fundamentals of human growth and development as well as what it takes to be an effective teacher. Once students learn the fundamentals, they are given a choice to move into either early childhood education or teaching professions.

Careers available in the Education pathway include, but are not limited to, the following:

- Teacher
- Paraprofessional
- School Counselor
- Program Director
- Trainer
- Curriculum Design

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

- Council for Professional Recognition - Child Development Associate Credential (CDA)
- Leadership Excellence - Student
- Child Abuse Awareness and Prevention

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

Salary Range*

$19,000 - $105,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Engineering and Science Technologies

CPS high schools that have Engineering-based Career Tech programs:

Aiken New Tech High School

Hughes STEM High School

Woodward Career Technical High School

In the Engineering programs at Aiken New Tech High School, Hughes STEM High School and Woodward Career Technical High School, students explore STEM careers as they participate in a project-based learning process that is designed to challenge and engage their natural curiosity and imagination. Teams design and test their ideas using modeling, automation, robotics, and mechanical and computer control systems, while exploring energy and the environment. This program is all about applying engineering, science, math and technology to solve complex, open-ended problems in a real-world context. Through project- and problem-based hands-on learning experiences, students use industry-leading technology to solve problems while gaining skills in communication, collaboration, critical thinking and creativity.

Careers available in the Health Science pathways include, but are not limited to, the following:

- Computer-Aided Drafting Technician
- Engineer
- Engineering Technician
- Line Operator
- Maintenance Technician
- Quality Technician
- Trainer
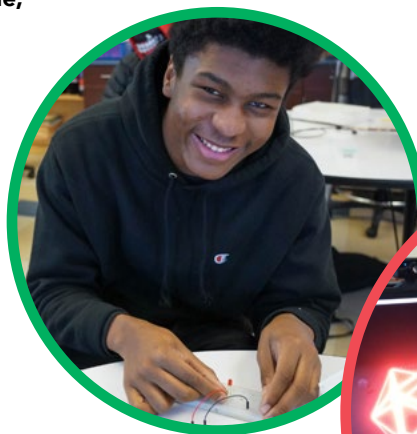- Curriculum Design

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

- National Institute for Certification in Engineering Technologies (NICET) Level II Certification or higher
- FANUC Certified CNC Turning Center Programming, Setup, and Operation
- National Center for Construction Education and Research (NCCER) Core

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

$

Salary Range*

$63,000 - $122,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Health Science

CPS high schools that have Health-based Career Tech programs:

Interested in health? You have a world of options to choose from, ranging from caring for patients to conducting research in a laboratory.

Our Health Science programs are ideal for students who:
- Enjoy helping people feel better
- Are interested in medicine or science
- Would enjoy working in a laboratory

Hughes STEM High School

Shroder High School
Medical Bioscience
This program pulls together a variety of disciplines — including biology, chemistry and physics — to teach students about the world of agriculture, plant and animal science, and the complex field of food science. Students will also benefit from leadership development, personal growth and career exploration.

Riverview East K-12 School
Allied Health and Nursing
Students in the Allied Health and Nursing pathway gain a wide range of skills through courses like Nutrition and Wellness and Medical Terminology. Additionally, students participate in numerous clinical laboratory experiences. Students will explore major medical occupations through real-world experiences. Students will be exposed to numerous certification and credentialing programs including Phlebotomy. Internships in health-related fields are also available.

Woodward Career Technical High School
Allied Health and Nursing
Students in the Allied Health and Nursing pathway gain a wide range of sk courses like Nutrition and Wellness and Medical Terminology. Additionally, students participate in numerous clinical laboratory experiences. Students will explore major medical occupations through real-world experiences. Students will be exposed to numerous certification and credentialing programs including Phlebotomy. Internships in health-related fields are also available.

Medical Bioscience

Taft Information Technology High Schools
Students in the Exercise Science and Sports Medicine program learn how the body works and how to make it stronger. Additionally, a strong emphasis is placed on how to assist people in preventing and recovering from injuries. Students learn how to apply techniques and procedures in the area of athletic training and rehabilitation.

Careers available in the Health Science pathways include, but are not limited to, the following:
- Licensed Practical Nurse (LPN)/Registered Nurse (RN)
- Medical Assistant
- Nurse Aide (including STNA)
- Phlebotomist
- Patient Care Assistant/Technician
- Pharmacy Aide/Technician
- Surgical Technician
- Respiratory Technician
- Nutritionist
- Physician
- Lab Assistant
- Community Health Worker
- Emergency Medical Technician (EMT)/Paramedic
- Health Information Specialist/Analyst
- Occupational Therapy Assistant
- Health Unit Coordinator
- Medical Sonographer

$

Salary Range*

$21,000 - $208,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

- American Medical Certification Association (AMCA) - Clinical Medical Assistant Certification
- American Medical Certification Association (AMCA) - Patient Care Technician Certification
- American Medical Certification Association (AMCA) - Phlebotomy Technician Certification
- Bleeding Control Basic 1.0 Course
- CPR First Aid

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

Hospitality and Tourism

CPS high schools that have Hospitality and Tourism-based Career Tech programs:

Dater High School

The Culinary and Food Services Program at Dater High School is a fast-paced, hands-on experience that prepares students for post-secondary culinary arts and beyond. Students learn basic and advanced skills, including safety and sanitation, knife skills and basic cooking methods, all while covering a variety of food products; stocks, sauces and soups; baking and pastries; and ethnic cuisines.

This program is ideal for students who:

• Enjoy cooking
• Enjoy dining in restaurants
• Would like to work in a hotel, on a cruise ship or in a restaurant

Careers available in the Culinary pathway include, but are not limited to, the following:

• Banquet Setup Employee
• Caterer
• Catering and Banquet Manager
• Executive Chef
• Food and Beverage Manager
• Line Cook
• Pastry and Specialty Chef
• Personal Chef
• Restaurant Manager
• Restaurant Owner
• Sous Chef
• Nutrition Specialist

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

• American Culinary Federation - Certified Culinarian (CC)
• ProStart Certificate of Achievement
• RISE Up Customer Service and Sales
• RISE Up Retail Industry Fundamentals

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

Salary Range*

$22,000 - $60,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Law and Public Safety

CPS high schools that have Law and Public Safety-based Career Tech programs:

Western Hills High School
Dater High School

Do you have what it takes to handle an emergency? Do you want to learn how to save lives and improve your community? The Public Safety and Emergency Medical Services program offered on the Western Hills High School and Dater campuses prepares students for careers protecting lives, firefighting and emergency medical services.

This program is ideal for students who:
• Want to be a firefighter
• Want to be an EMT
• Like to help people

Careers available in the Public Safety and Emergency Medical Services pathway includes, but are not limited to, the following:
• Emergency Medical Technician
• Firefighter
• Healthcare Careers

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

• Ohio Department of Public Safety, Division of EMS EMT - Basic
• National Incident Management System 100
• National Incident Management System 700
• National Incident Management System 200
• National Incident Management System 800

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

$

Salary Range*

$29,000 - $122,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Information Technology

CPS high schools that have Information Technology-based Career Tech programs:

In our knowledge-based economy, information technology is an in-demand field. Our Information Technology programs can open many doors for students.

These programs are ideal for students who:
- Enjoy learning about and using new technology
- Enjoy creating or designing things
- Are good at solving problems

We offer three programs:
- **Cybersecurity** - Taft Information Technology High School
- **Information Support and Services** – Taft Information Technology High School
- **Interactive Media** – Taft Information Technology High School
- **Programming and Software Development** – Hughes STEM High School

Hughes STEM High School
Gamble Montessori High School

The **Programming and Software Development** program allows students to apply principles of computer programming and software development in order to code; build, test and debug programs; create finished products; and plan, design, develop, implement and support software applications. This unique program at Hughes has a partnership with the University of Cincinnati so that students earn college credit while in high school.

Taft Information Technology High School

The Cybersecurity program allows students to learn the components of cybersecurity and the role each plays in preventing, detecting and mitigating vulnerabilities and attacks. Components include the security of the network infrastructure, security of the systems, and the prevention, detection, and mitigation of common vulnerabilities and attacks. Students examine and implement security safeguards for desktop, network, and application security.

Taft's Information Support and Services program provides students with a basic foundation in and fluency for careers in Information Technology. Students build levels of mastery in system implementation, computer systems and software, technical assistance, and information systems management.

Through best practices and training, our students gain the foundational, analytical and problem-solving skills needed in today's business industries. This program offers opportunities that can lead to being recognized as a certified technical professional.

To prepare students for today's competitive market, the Interactive Media program provides a strong foundation in arts and communication with particular emphasis on 2D and 3D graphics, media communications, interactive technologies and project development. Levels of mastery are gained in media design and interactive media processes through best practices to help advance our youths' technical, creative and analytical skills. Our students learn the use of multiple tools and experiences in multimedia design, Internet technology, Website development, computer 2D and 3D graphics, digital media production, and animation and sound.

Careers available in the Information Technology pathways include, but are not limited to, the following:
- Application Developer
- Application Support Specialist
- Cybersecurity
- Data Entry
- Database Administrator
- Database Designer
- Digital Content Editor
- Graphic Designer
- Help Desk
- Mobile Application Developer
- Social Media Specialist
- Software Engineer
- Systems Administrator
- Video Game Developer
- Web Designer
- Computer Support Specialist
- Field Service Technician
- Help Desk Technician
- Help Desk Manager
- Desktop SupportApplication Support Specialist
- IT Security Specialist
- Network Technician
- CyberSecurity Technician
- PC Support Technician
- Product Support Engineer
- Software/Applications Support
- Technical Support Specialist

$

Salary Range*

$54,000 - $164,000

Visit Ohio Means Jobs to learn more about Ohio Average Yearly Pay (*US average)

Industry-recognized Credentials

There are a number of industry-recognized credentials for this career area. Some of these include, but are not limited to, the following:

- Certified Ethical Hacker (CEH)
- CompTIA A+
- Ethical Hacking Core Skills (EHCS)

Visit Career and Technical Education (CTE) at cps-k12.oh.us for interactive links to the credentials listed.

A full list of Ohio Department of Education approved credentials for this career area is available on the ODE website.

For an interactive PDF version of this guide visit

www.cps-k12.org/highschools.

Cincinnati Public Schools
Career TEchnical Education
P.O. Box 5381
Cincinnati, OH 45201-5381