



COLUMBUS CITY SCHOOLS CAREER-TECHNICAL EDUCATION CENTERS

PATHWAY GUIDE

Once you enter the doors of our Career-Technical Centers you will discover that we offer high-quality programming that prepares students for in-demand careers in high-growth technical fields and for college.

We can provide the career-related training and practical experiences that connect students to their dreams and future success.



Columbus Downtown High School
364 S. Fourth Street
Columbus, Ohio 43215
<https://www.ccsoh.us/ColumbusDowntownHS>
(380) 997-4213



Fort Hayes Career Center
546 Jack Gibbs Blvd.
Columbus, Ohio 43215
<https://www.ccsoh.us/FortHayesCC>
(380) 997-6126



CONSTRUCTION

Bricklaying & Concrete Systems

- Learn bricklaying, concrete work, blocklaying, tuck pointing, and stone work.
- Gain the opportunity to work on projects such as building foundations and walls.
- Industry certification opportunities and college credit available.

Carpentry

- Learn the basic and advanced skills through actual work on-site at building and remodeling projects.
- This class covers tool use, material selection, building design, cabinetry, and more.
- Industry certification opportunities and college credit available.

Construction Electricity

- Gain the skills necessary to install and maintain electrical systems in residential and commercial buildings.
- Study circuitry, national and local codes, and the fundamentals of electricity.
- Prepare to enter a four-year apprenticeship program.
- Industry certification opportunities and college credit available.

Heating, Ventilation & Air Conditioning (HVAC)

- Participate in a hands-on environment focusing on heating and cooling unit installation, maintenance, and repair.
- Learn to troubleshoot and solve heating and cooling problems.
- Industry certification opportunities and college credit available.

Welding

- Develop skills in several types of welding and cutting, brazing, blueprint reading, fabrication, and manufacturing.
- Training may lead to job placement in senior year.
- Industry certification opportunities and college credit available.

NCCER (Senior-Only, one-year program)

(National Center for Construction Education and Research)

- Obtain a NCCER Construction Certification that can be used in construction remodeling
- Learn to safely operate construction tools and equipment
- Build various structures including floor, wall and roof systems
- Install numerous finishes such as flooring, cabinetry, trim work, siding and roofing
- Understand and work with electricity, plumbing and HVAC components of a remodeling project
- Interpret blueprints and understand schedules and planning through the completion of a remodel project

HEALTH

Bioscience Technology

- Discover how living organisms like cells, plants, and animals can be used to solve real-life problems related to crime, hunger, the environment, nutrition, and health.
- Use scientific inquiry in areas of microbiology, DNA, proteins, immunology, and bioethics.
- Sharpen lab skills such as micropipetting, aseptic technique, pouring, inoculating, and streaking agar plates.

Dental Assisting

- Develop the skills necessary to assist dentists and hygienists with patient care, office tasks, and lab duties.
- Successful students may transition to a post-secondary institution in a time-shortened related program.
- Industry certification opportunities and college credit available.

Fitness & Wellness

- Pursue your interest in sport, recreation, health and/or fitness.
- Trainers, instructors, managers and programmers are needed to address the wellness needs of the general public or specific clients/populations.
- Successful students will be certified in First Aid and CPR, along with industry certification opportunities
- College credit available..

Medical Assisting

- Learn to help care for patients primarily in medical offices and clinics.
- Medical Assistants are multi-skilled professionals who assist in patient care management, clinical, and administrative duties.
- Successful students may transition to partnering post-secondary institutions to complete the requirements for the Medical Assisting Associate's or Bachelor's Degree in a time-shortened program.
- College credit available.

Medical Laboratory Technician

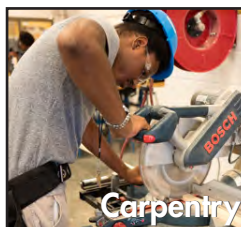
- Gain the skills necessary to perform diagnostic procedures in a health-care setting, such as chemical analysis of body fluids, classification of blood cells, identification of disease producing microorganisms, and the selection of compatible donor blood for transfusion.
- Successful students may complete the requirements for the Medical Laboratory Technician Associate Degree at CSCC in a time-shortened program.
- College credit available.

Nursing – State Tested Nursing Assistant (STNA)

- Develop skills to care for patients who are ill, injured, or disabled.
- Prepare for a career working in hospitals or nursing homes under the direction of nurses and doctors.
- Successful students will be qualified to take the State Test for Nurse Assisting and may transition to partnering post-secondary institutions to complete the requirements to become a Registered Nurse in a time-shortened program.
- College credit available.

Surgical Technology/CCP Sterilization

- Presentation and discussion of development and history of a modern Sterile Processing Department.
- Roles and responsibilities of Sterile Processing Technicians.
- Review of the anatomy and physiology of the human body in relation to processing of medical devices and patient care equipment.
- Discussion of basic Microbiology and identification of common microbes and diseases found in today's healthcare environment.
- College credit available.





MEDIA ARTS

Audio Production

- Learn how to become an audio engineer in a recording studio.
- Discover the principles of sound, microphone techniques, mixing, and mastering.
- Gain experience using the industry-standard, digital-recording system Pro Tools.
- College credit available.

Filmmaking & Television Production

- Acquire the main aspects of live, multiple-camera, television studio, and radio productions.
- Operate high-definition studio cameras, video production switchers, character generators, professional videotape recorders, and audio-mixing consoles.
- Produce a regularly scheduled campus newscast and develop hands-on skills necessary to produce, direct, and engineer live television studio productions from script to credits.
- College credit available.

Photography

- Learn the principles of continuous-tone photography and digital photography.
- Composition, lighting, manipulative functions, operative settings, and focus control of cameras and enlargers is emphasized.
- Computer hardware and software for electronic manipulation of images is taught to allow students to print their work in a variety of sizes.
- College credit available.

PERFORMING ARTS

Dance Performance

- Study and perform the different genres of dance including jazz, ballet, tap, music video, and modern styles.
- Focus on anatomy and physiology, choreography, and physical training.
- Practical application of skills is reinforced through production labs and actual performance.
- College credit available.

Music Performance

- Explore music-related career opportunities, including career identification, required skill sets, organized labor within the industry, and personal portfolio development.
- Learn the main aspects of multi-track audio recording and apply newly acquired skills through production labs and actual performances.
- College credit available.



Music Performance



Dance Performance



Audio Production



Photography

Theater Performance

- Foster your talents in the areas of acting, directing, basic lighting, stagecraft, sound, set construction, and other aspects of the theater.
- Practice and develop basic skills in an authentic theater environment.
- College credit available.

TRANSPORTATION

Automotive Collision Repair

- Launch your career in the collision repair industry.
- Receive instruction in vehicle design and manufacture, basic collision repair and refinishing technologies, proper usage of tools, equipment, and materials.
- Industry certification opportunities and college credit available.

Automotive Technology

- Obtain the skills needed for an entry-level position in auto mechanics including alignment, steering, braking systems, and electronics.
- Industry certification opportunities and college credit available.

ASE Automotive Service Excellence (Senior-Only, one-year program)

- Obtain NATEF/ASE-Maintenance Certification that can be used in the automotive repair industry
- State-of-the-art training facility and equipment
- Hands-on skill training
- Job placement assistance after 3rd grading period
- Several career path options after completing the one-year program

VISUAL ARTS

Art Portfolio

- Receive an intensive introduction to the discipline of free-hand drawing and illustration.
- Emphasis is on media, concepts, drawing from observation, two and three-dimensional studies, and individual technique development.
- College credit available.

Graphic Design & Printing

- Explore all aspects of the graphics communications industry.
- Develop skills in computer design, photography, imaging and printing in digital and large-format operations.
- Adobe Certified Associate Certification.
- College credit available.



Cosmetology

Cosmetologist

- Students prepare to become licensed to work in a salon.
- Students will develop technical skills in all areas of cosmetology, hair cutting, color, permanent waves, relaxers and hair designing.
- Students will practice their skills on customers in a salon setting.
- Students who successfully complete the program will be able to sit for the Ohio State Board of Cosmetology Licensing exam.

Manicurist (Senior-Only, one-year program)

- Students learn how to perform quality manicures and pedicures.
- Students learn the techniques of artificial nail implementation in a safe and sanitary manner.
- This program is designed to prepare students to take the State Board Licensing Exam required to become a licensed nail technician.

Culinary Arts

- Students develop skills and knowledge pertaining to hospitality, restaurant, and institutional food preparation.
- Students learn through the ProStart® curriculum developed by the National Restaurant Association. ProStart® is the restaurant and food service industry's leading career-building program for high school students interested in culinary arts and food service management.
- Industry certification opportunity and college credit available.

Education

Early Childhood Education Pathway

- Students learn the fundamentals of childhood development, instructional strategies, how to create a positive instructional environment and lesson development.
- Students learn to manage, guide, and direct developmentally appropriate learning activities.
- College credit available.

Columbus Teaching Academy (Senior-Only, one-year program)

- Classes are held on The Ohio State University main campus.
- Students complete two internships in local elementary, middle, or high school classrooms.
- College credit available.

Manufacturing

Advanced Manufacturing

- Focus on quality, measurement, maintenance, and safety in manufacturing operations.
- Learn to use cutting, drilling, and grinding tools.
- Learn operation of manual and CNC industrial milling machine and CNC industrial lathes.
- Use calculations and measurement to mill products to print dimensions.

Information Technology

IT-Support & Services Pathway

- Prepares students for careers in the exciting field of IT
- Learn to build a computer from scratch, set up wireless networks, and install and configure the latest operating systems.
- CompTIA A+ Industry Certification available.

IT-Interactive Media Pathway

- Enables the student to master the skills needed to become proficient in creating, designing, and producing interactive multimedia products and services.
- Interactive Media focuses on the development of digitally generated and computer-enhanced media.
- Adobe Certified Associate (ACA) in Photoshop, Dreamweaver, and Flash certification available.

IT-Programming & Software Development Pathway

- Trains the student in software programming and analysis by learning to design, develop, test, document, implement, and maintain computer systems and software.
- Sun Certified Java Associate certification available.

Public Safety

- Perfect candidates are students dedicated to serving our community.
- Students will be exposed to police, fire, emergency medical services, corrections, security, and homeland security.
- Students will network with professionals in the industry and learn the importance of teamwork through classroom learning, lab activities, real-world assignments, and community service projects.
- Work with Columbus Fire and Police Department mentors.
- Physical fitness
- Learn how to perform first aid and CPR.
- Earn credentials
- College credit available.

