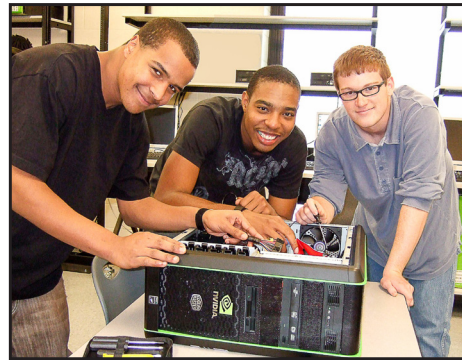# COLUMBUS CITY SCHOOLS
CAREER-TECHNICAL EDUCATION CENTERS

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
http://columbusdowntownhs.ccsoh.us
(614) 365-2283

Fort Hayes Career Center
546 Jack Gibbs Blvd.
Columbus, Ohio 43215
http://www.forthayeshs.ccsoh.us/CareerTechnicalEducation.aspx
(614) 365-6681

SPIRIT OF SUCCESS

COLUMBUS CITY SCHOOLS

BRICKLAYING & CONCRETE SYSTEMS
- Learn bricklaying, concrete work, block laying, 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.

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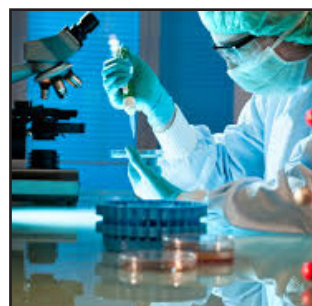
MEDICAL LABORATORY TECHNICIAN
- Gain the skills necessary to perform diagnostic procedures in a health-care setting, such as chemical analysis of body fluids, classification of blood cells, identification of disease producing microorganisms and the selection of compatible donor blood for transfusion.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

NURSING
- 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.

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.

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.

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.

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.

THEATRE 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.

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.

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 ARTS & DESIGN
- 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 and college credit available.

DESIGN
- Create and construct fashions for the home, office or building interiors.
- Topics range from structural issues to choice of fabrics and materials.
- Adobe Certified Associate Certification and 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.

COLUMBUS
CITY SCHOOLS

BUSINESS

Financial Services Pathway
- Prepares students for employment in finance and banking career fields.
- Students are introduced to personal and commercial finance, investing, and employability skills.

Business & Administrative Service Pathway
- Prepares students for employment in the following careers:
- Business administration, digital marketing, marketing management, office management, proprietor, and supply chain management.
- Technology, employability skills, leadership and communications will be incorporated in classroom activities, as well as cooperative educational and internship experiences out of the classroom.
- College credit available.

COSMETOLOGY
- 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 actual customers in a modern salon setting.
- Students who successfully complete program will be able to sit for the Ohio State Board of Cosmetology Licensing exam.

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 Pathway
- A one-year program designed specifically for high school seniors considering a career in education.
- 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.

ENGINEERING TECHNOLOGIES

Engineering & Design
- Students in this program develop critical thinking and problem solving skills needed for success in life.
- Students who enjoy hands-on projects and designing products will thrive in this program.
- Learn basic drafting skills, 3D design modeling software, blueprint reading and use computer-aided drafting software.

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.

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.

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 making our community a better place to live.
- 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.
- College credit available.

Learn. Dream. Succeed.