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ROBOTICS ENGINEERING @MEADOWDALE

26+3

More Than
440

\$480K

26 high school careertech programs PLUS 3 middle school PLTW programs

Credentials Earned 2021 - 2022

Potential Sinclair tech prep scholarship dollars earned

Dayton Career-Tech by the

NUMB3R5

Approximate number of students served in CTE courses 2021 - 2022

4-year graduation rate for DPS CTE students

College semester hours earned 2021-2022

1,400

91.9%

350

What is Career-Technical Education?

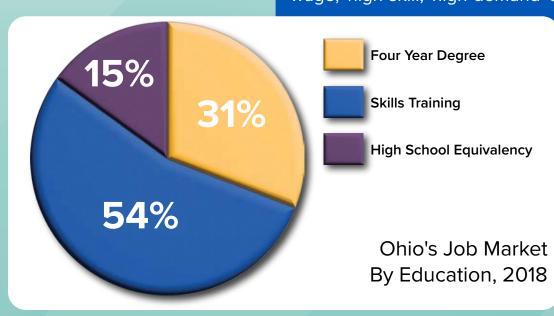
Career-Technical Education (CTE) provides students with both the academic and technical skills, knowledge and training

necessary to succeed in future careers. CTE delivers education that can get students "Career Ready" - ready for a job, ready for post-high school education, ready for whatever comes next.



CTE is **delivered** at comprehensive and CTE-dedicated high schools, magnet schools, area technical centers, community and technical colleges and some four-year universities. CTE students have the opportunity to earn **industry certifications/credentials** as well as **college credits** while in high school.

CTE prepares youth and adults for a wide range of highwage, high-skill, high-demand careers. In Ohio, most of

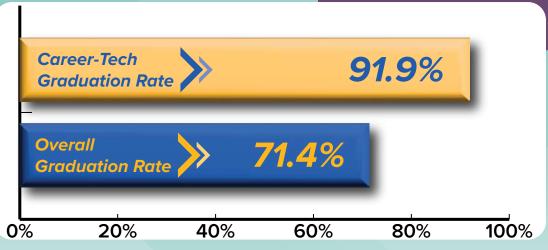


those careers require more than a high school diploma, but less than a four year degree. There's currently a shortage of workers to fill those skilled jobs. Career-Technical Education is designed precisely to fulfill this need.

What is Career-Technical Education?

In Dayton Public Schools, **91.9 % of career-tech students graduated in 2021**, which is 20.5% above

the district's graduation average of 71.4%.



Middle school students in DPS have the opportunity to take courses in Engineering, Robotics and/or Health Science. We offer the following courses: Design and Modeling, Robotics, and Medical Detectives.

97.2% of Ohio's career-tech students graduated in 2020. This is **10**% **above the state average**.



CAREER-TECHNICAL EDUCATION LEADERSHIP

Elizabeth Lolli, Ph.D., Superintendent
Erin Dooley, Chief of Secondary Schools
Michelle Rammel, Ph.D., Director, Career-Technical Education
Matthew Folkerth, Coordinator, Career-Technical Education
Megan O'Toole, Work-Based Learning Specialist

RIASEC Career Interest Survey

Step 1: Place a check mark or an "x" in each square for the statements that describe things you enjoy doing.

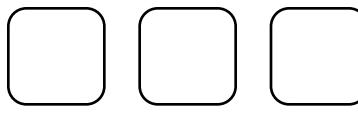
Example: Cooking

R	I	A	S	ш	C
$\overline{\mathbf{V}}$					

	R	I	A	S	Е	C
Keeping records of the work you do						
Figuring out how things work						
Taking on new responsibilities						
Reading about art and music						
Leading others						
Building things						
Filing or typing						
Being creative						
Cooking						
Doing math						
Anything science						
Helping people						
Working in teams						
Selling things						
Being practical						
Having clear instructions to follow						
Teaching or training people						
Setting and achieving goals						
Working with numbers or charts						
Organizing things						
Working in an office						
Paying attention to details						
Drawing or painting						
Playing instruments or singing						

	R	I	A	S	Е	C
Giving speeches						
Influencing or persuading people						
Working outdoors						
Putting things together						
Analyzing problems and situations						
Starting a business						
Inventorying supplies						
Helping people to heal						
Working independently						
Doing puzzles						
Taking part in discussions						
Acting in plays						
Helping people solve their problems						
Writing creatively						
Taking care of animals						
Doing experiments						
Learning about other cultures						
Working on cars						
Step 2: Add the total number of marks in each column from both pages. Step 3: Enter the matching letters for your three highest scores.	R		A	S	E	C
R = Realist I = Investig A = Artistic S = Social E = Enterpo	gative ; rising					

Copy the three letters from the previous page into these boxes:



Step 4: For each of your 3 letters, highlight the career paths that interest you.

R = Realistic

People who are in this category like to work with their hands, see the physical world, and engage in physical activities. They are adventures, they often like the outdoors, and they like to explore.

Some good Career Paths for this group include:

- Agriculture
- Architecture
- Auto Mechanic
- Computers
- Construction

- Drafting
- Engineering
- Food and Hospitality
- Forestry
- Health Assistant

- Manufacturing
- Mechanic/Machinist
- Physical Education
- Quality Control Inspectors
- Wildlife Management

I = Investigative

People who are in this category like to see how things work, analyze what they find, and solve problems. They are curious, self-motivated, and always looking for answers to the questions "how and why?"

Some good Career Paths for this group include:

- Biology
- Chemistry
- Chiropractic
- College professor
- Computer Programming
- Consumer Economics
- Dentistry
- Engineering
- Marine Biology
- Mathematician

- Medicine/Surgery
- Pharmacist
- Psychology
- Sociologist
- Zoology

A = Artistic

People who are in this category are creative and focused on self-expression. They like variety and unstructured situations where they are free to use their creative skills.

Some good Career Paths for this group include:

- Advertising Executive
- Architecture
- Art/Art History
- Chef
- Communications
- Cosmetology

- Digital Design
- Fashion Design
- Fine and Performing Arts
- Illustration
- Interior Design
- Journalism

- · Music, Theatre, or Dance
- Musician
- Philosophy
- Photography
- Radio/TV
- Web Content Design

S = Social

People who are in this category like to work with other people; they enjoy helping others solve their problems. They usually have good communications skills and are natural leaders.

Some good Career Paths for this group include:

- Advertising
- Counseling
- Education
- Health Science
- Human Development
- Religious Ministry
- Nursing
- Occupational Therapy
- Physical Therapy
- Public Health

- Public Relations
- Recreation Leader
- Social Work
- Speech Pathology
- Travel Specialist

E = Enterprising

People who are in this category like to work with others. They often lead the way to ensure that the job gets done. They usually work with a high degree of energy and are always working towards finding solutions to problems.

Some good Career Paths for this group include:

- Banking/Finance
- Business Administration
- Computer Info Systems Elected Public Official
 Fashion Merchandising

- Human Resources
- International Trade
- Law
- Marketing
- Political Science

- Purchasing
- Real Estate
- · Restaurant Manager
- Sales
- **Travel Agent**

C = Conventional

People who are in this category are detailed oriented, organized, and rule followers. They like to know exactly what is expected of them and take pride in completing their tasks well.

Some good Career Paths for this group include:

- Accounting
- Administration
- Banking
- Court Reporting
- Credit Management
- **Data Processing**

- Finance
- Inspections
- Insurance
- IRS Agent
- Library Science
- Medical Records

- Office Management
- Paralegal Studies
- Professional Organization
- Secretary
- **Transportation Management**

Step 5: List the three career paths that interest you the most.

I))		
′	,		

- I tell stories creatively
- I want to learn how to make movies
- I like working as part of a team
- I like finding solutions to problems



Students will learn pre-production, production, and post-production of varied genres of short films. Students will learn professional level editing, special effects software, and HD camera operation.

What I will learn:

- ► How to shoot a documentary film
- ▶ How to shoot a narrative film
- ► How to write a script
- How to operate a camera and compose great images
- How to edit and color correct.

Industry Certifications and Credentials:

- ► Adobe Premiere Pro (4 points)
- Adobe After Effects (4 points)

College Credit Opportunities With Sinclair Community College Students also have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
\Rightarrow	Certification	Audio and Video Technicians	\$23.47	\$48,820.00
$\stackrel{\wedge}{\sim}$	Associate's degree	Camera Operators, Television	\$23.67	\$49,230.00
$\stackrel{\wedge}{\sim}$	Bachelor's degree	Film and Video Editors	\$30.13	\$62,680.00
	Bachelor's degree	Graphic Designer	\$24.38	\$50,710.00
$\stackrel{\wedge}{\sim}$	Bachelor's degree	Media Programming Directors	\$37.98	\$79,000.00

- I like technology
- I am curious
- I am logical
- I am creative



Explore the applications behind the creation of today's hottest design trends. Get hands-on experience with digital photography using state-of-the-art tools. Learn how to design and develop modern websites for mobile and desktop platforms.

What I will learn:

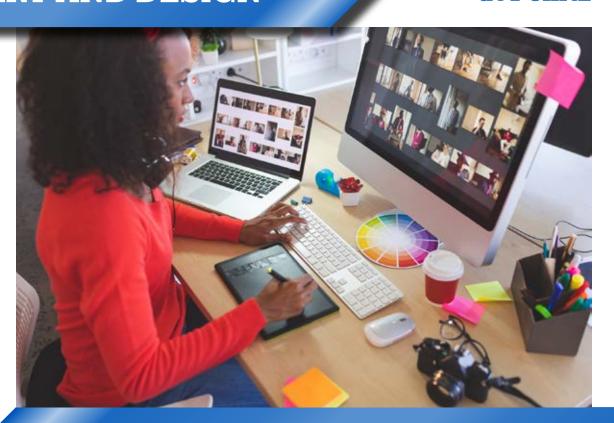
- ► Create and edit graphic designs
- Capture images using a professional camera
- Create a website that suits the client
- Use of color, typography and design principles
- ▶ Design, edit, and construct the school's yearbook

College Credit Opportunities With Sinclair Community College

Students also have the opportunity to earn six college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
\Rightarrow	HS diploma or equivalent	Photographer	\$18.73	\$38,950.00
	Bachelor's degree	Graphic Designer	\$24.38	\$50,710.00
	Bachelor's degree	Web Administrators	\$45.80	\$95,270.00
\Rightarrow	Bachelor's degree	Web Developers	\$37.03	\$77,030.00
\Rightarrow	Bachelor's degree	Web and Digital Interface Designers	\$38.41	\$79,890.00

- I like to design things
- I am detail-oriented
- I like technology
- I work with my hands



Explore all aspects of the graphic art industry. Develop skills in computer design, photography, screen printing, and printing digital and large-format operations.

What I will learn:

- Designing skills including concepts and principles, color theory, and typography
- Job planning and estimation
- Printing processes
- Bindery and finishing
- Digital photography
- Screen printing

Industry Certifications and Credentials:

- Adobe Photoshop (4 points)
- Adobe Illustrator (4 points)
- Adobe InDesign (4 points)

College Credit Opportunities

Students have the opportunity to earn six college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	HS diploma or equivalent	Print Binding and Finishing Workers	\$17.59	\$36,590.00
	HS diploma or equivalent	Printing Press Operators	\$18.16	\$37,770.00
	Bachelor's degree	Graphic Designer	\$24.38	\$50,710.00
\Rightarrow	Bachelor's degree	Special Effects Artists and Animators	\$37.88	\$78,790.00
\Rightarrow	Bachelor's degree	Web Developers	\$37.03	\$77,030.00

- I am creative
- I am a storyteller
- I am detail oriented
- I am inquisitive
- I never stop learning



Students learn the fundamentals of broadcasting production in audio, video, and marketing while using a fully equipped television studio, video edit lab, FM studio, and audio production booths. The program is designed to build skills so students can independently produce video and audio pieces for broadcast. Students will push their creative potential and explore the world through the eyes of media.

What I will learn:

- Audio and video recording and editing
- Audio and video production
- Writing for electronic media
- Journalism
- Adobe Audition software
- Adobe Premier Pro software

College Credit Opportunities

JOU 2203 Reporting and Writing for Media

Students have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
$\stackrel{\wedge}{\curvearrowright}$	Certification	Audio and Video Technicians	\$23.47	\$48,820.00
$\stackrel{\wedge}{\sim}$	Bachelor's degree	Camera Operators, Television, Film	\$23.67	\$49,230.00
	Bachelor's degree	Editors	\$30.46	\$63,350.00
$\stackrel{\wedge}{\sim}$	Bachelor's degree	Film and Video Editors	\$30.13	\$62,680.00
	Bachelor's degree	News Analysts and Journalists	\$23.26	\$48,370.00

- I am detail-oriented
- I like taking photographs
- I like working independently and collaborating with other artists
- I have good attendance
- I am self motivated



Learn the latest technology and gain an understanding of fine art and studio photography. Gain a solid foundation in the conceptual, technical, and studio coursework. Learn the foundations of traditional darkroom and digital photography, printing, studio lighting, Adobe Creative Suite photo software, and web-based applications.

What I will learn:

- Camera operation
- ▶ Image composition
- Analog/darkroom photography
- Experiment with alternative processes
- Develop your personal artistic style

Industry Certifications and Credentials:

Adobe Photoshop (4 points)

College Credit Opportunities

Students have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
	HS diploma or equivalent	Career-Tech. Ed. Teacher (Secondary)		\$61,820.00
$\stackrel{\wedge}{\sim}$	HS diploma or equivalent	Photographer	\$18.73	\$38,950.00
	HS diploma or equivalent	Photographic Process Workers	\$17.59	\$36,590.00
	Bachelor's degree	Graphic Designer	\$24.38	\$50,710.00

THEATRICAL DESIGN AND PRODUCTION

Is This You?

- I am self-motivated and disciplined
- I have strong artistic skills
- I love challenges and creative problemsolving
- I prefer working in a shop over desk work



This program covers instruction in designing and producing technical elements for the performing arts disciplines. These studies prepare students for a wide variety of jobs, including: working on Broadway productions, working in film and television art departments, managing large scale events, and concert touring.

What I will learn:

- Scenery design, construction, and painting
- Lighting design, installation, and programming
- Sound design and editing
- Costume design, sewing, and construction
- Stage and project management

Industry Certifications and Credentials:

► OSHA 10 (1 point)

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
ightharpoons	Certification	Sound Engineering Technicians	\$29.09	\$60,500.00
	Bachelor's degree	Set and Exhibit Designer	\$26.37	\$54,860.00
\Rightarrow	Bachelor's degree	Lighting Technician	\$24.75	\$51,470.00
\Rightarrow	Bachelor's degree	Producers and Directors	\$37.98	\$79,000.00

- I enjoy helping others
- I am detail-oriented
- I am organized
- I solve problems



Gain a basic understanding of economics, owning and operating a business, globalization, marketing, and personal finance planning. Learn business technology and software to earn Microsoft Office Specialist certifications. Expand career awareness to become employable in a variety of business careers. Design and implement powerful marketing and management plans to solve real-world business challenges.

What I will learn:

- Business foundations
- Fundamentals of business and administrative services
- Financial accounting
- Management principles

Industry Certifications and Credentials:

- RISE Up Retail Fundamentals (6 points)
- Microsoft PowerPoint (3 points)
- Microsoft Word (3 points)
- Six Sigma Yellow Belt (3 points)
- Six Sigma Green Belt (6 points)
- Student Leadership Excellence (3 points)

College Credit Opportunities With Sinclair Community College

ACC 1100 Small Business Accounting MAN 1107 Foundations of Business

FIN 2450 Personal Finance

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
$\stackrel{\wedge}{\mathcal{M}}$	HS diploma or equivalent	Customer Service Representative	\$17.75	\$36,920.00
$\stackrel{\wedge}{\sim}$	HS diploma or equivalent	Retail Salespersons	\$14.00	\$29,120.00
	Associate's degree	HR Assistants, Except Payroll and Timekeeping	\$21.94	\$45,630.00
$\stackrel{\wedge}{\searrow}$	Bachelor's degree	Accountants and Auditors	\$37.14	\$77,250.00
$\stackrel{\wedge}{\Rightarrow}$	Bachelor's degree	Management Analysts	\$44.71	\$93,000.00

BUSINESS - SUPPLY CHAIN

Is This You?

- I enjoy helping others
- I am detail-oriented
- I am organized
- I solve problems



Students will learn how to move products from the manufacturer to the customer. Students will learn how technology is used to monitor the product through the various supply and transportation systems as well as how to improve the systems used to move products to consumers in a cost effective and efficient manner.

What I will learn:

- Project management
- ► Types of transportation
- ► Fundamentals of management
- Customer satisfaction
- Microsoft Word, Excel, PowerPoint

Industry Certifications and Credentials:

- ▶ RISE Up Customer Service and Sales (6 points)
- Microsoft PowerPoint (3 points)
- Microsoft Word (3 points)

College Credit Opportunities With Sinclair Community College

MAN 1107 Foundations of Business

MAN 2159 Supply Chain Management Concepts and Applications Students also have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
$\stackrel{\bigstar}{\sim}$	HS diploma or equivalent	Customer Service Representative	\$17.75	\$36,920.00
	HS diploma or equivalent	Dispatchers, except Police, Fire, And Ambulance	\$21.18	\$44,050.00
	HS diploma or equivalent	Transportation Storage and Distribution Managers	\$47.22	\$98,230.00
$\stackrel{\wedge}{\curvearrowright}$	Bachelor's degree	Logisticians	\$37.03	\$77,030.00
\Rightarrow	Bachelor's degree	Management Analysts	\$44.71	\$93,000.00

- I like technology
- I am analytical
- I pay attention to details
- I like to read



Identify and protect internet-connected data systems from cyber attacks. Build and support networks. Connect users' devices to each other and the internet.

What I will learn:

- Computer hardware
- Networking
- Routing and switching
- Network security

Industry Certifications and Credentials:

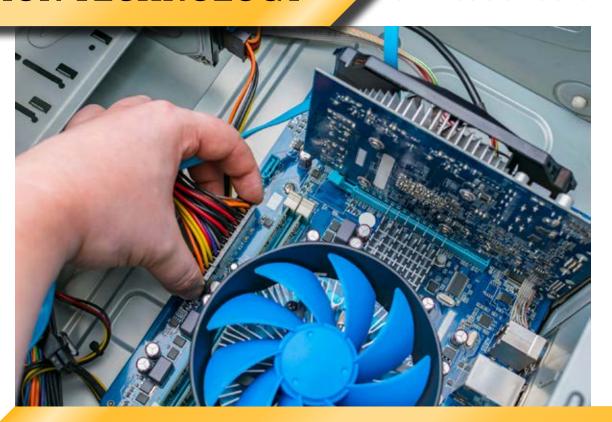
- CompTIA IT Fundamentals (6 points)
- CompTIA Security+ (6 points)
- CompTIA Network+ (6 points)

College Credit Opportunities With Sinclair Community College

Students also have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	Some college, no degree	Computer User Support Specialists	\$23.93	\$49,770.00
	Associate's degree	Computer Network Support Specialist	\$30.17	\$62,760.00
	Bachelor's degree	Computer Systems Analyst	\$47.73	\$99,270.00
	Bachelor's degree	Database Administrators	\$46.50	\$96,710.00

- I enjoy technology
- I like to fix things
- I pay attention to details
- I want to know how things work



Obtain a working knowledge of computer concepts, including computer hardware and software. Learn to install, repair, and troubleshoot computer hardware systems. Perform preventative maintenance practices. Install, configure, and troubleshoot network hardware and peripherals.

What I will learn:

- Information Technology
- Computer Hardware
- Computer Software
- Networking
- ▶ Information Technology Capstone

Industry Certifications and Credentials:

- CompTIA IT Fundamentals (6 points)
- CompTIA A+ (6 points)

College Credit Opportunities With Sinclair Community College

Students also have the opportunity to earn up to six college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	Some college, no degree	Computer User Support Specialists	\$23.93	\$49,770.00
	Associate's degree	Computer Network Support Specialist	\$30.17	\$62,760.00
	Associate's degree	Web Developers	\$37.03	\$77,030.00
	Bachelor's degree	Database Administrators	\$46.50	\$96,710.00

PROGRAMMING AND GAME DESIGN

Is This You?

- I like to solve puzzles
- I am detail-oriented
- I can work alone and with a team
- I like a challenge



Learn the basics of building simple interactive applications. Prepare to design and program games using commercial and open source programs and applications. Learn industry standard programming language constructs to write programs that integrate classes, class methods, and class instances. Learn input method handling, animation, collision detection, and game physics.

What I will learn:

- Learn programming languages
- ► Learn basics of the IT industry
- Basic programming structures
- Design and program games

Industry Certifications and Credentials:

- Adobe Premiere (4 points)
- Adobe Animate (4 points)

College Credit Opportunities With Sinclair Community College

CIS 1111 Introduction to Problem Solving and Computer Programming

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	Some college, no degree	Computer User Support Specialists	\$23.93	\$49,770.00
	Associate's degree	Web Developers	\$37.03	\$77,030.00
	Bachelor's degree	Computer Programmers	\$44.71	\$93,000.00
\Rightarrow	Bachelor's degree	Software Developer	\$58.05	\$120,730.00
\Rightarrow	Bachelor's degree	Video Game Designer	\$38.41	\$79,890.00

- I like to help others
- I am compassionate and caring
- I am hard working
- I am detailed-oriented and conscientious



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. Explore a range of medical careers through practical lab experiences, clinicals, and related coursework. Develop a professional work ethic with a focus on communication and patient care skills.

What I will learn:

- Customer service skills
- Medical terminology
- Maintaining safety and infection control
- Obtaining accurate vital signs
- Providing quality personal care

Industry Certifications and Credentials:

- State Tested Nurse Aide (STNA) (12 points)
- BLS CPR and First Aid (1 point)
- ► OSHA 10 (1 point)
- Nursing Assistant

College Credit Opportunities With Sinclair Community College

ALH 1101 Introduction to Healthcare Delivery

ALH 1120 Nurse Aid Training

ALH 1130 Basic Life Support Training for Healthcare Provider

HIM 1101 Medical Terminology

MAT 1130 Mathematics in Health Sciences

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	Certification	LPN and Licensed Vocational Nurses	\$23.11	\$48,070.00
$\stackrel{\wedge}{\sim}$	Certification	Nursing Assistant	\$14.57	\$30,310.00
	Associate's degree	Dietetic Technicians	\$14.19	\$29,520.00
$\stackrel{\wedge}{\sim}$	Associate's degree	Respiratory Therapist	\$29.73	\$61,830.00
$\stackrel{\wedge}{\sim}$	Bachelor's degree	Registered Nurses	\$37.31	\$77,600.00

BIOMEDICAL SCIENCE

Is This You?

- I can work as part of a team
- I am detail-oriented
- I am interested in learning how the human body works
- I am analytical and like to problem solve
- I can follow directions and work hard every day



Engage in compelling, hands-on activities and work together to find solutions to real-world problems. Use scientific inquiry in areas of microbiology, biochemistry, genetic engineering, medical interests, immunology, and bioethics. Sharpen lab skills such as micropipetting, aseptic technique, molecular biology techniques, inoculating and streaking agar plates, checking vital signs.

What I will learn:

- ► Basic biochemical lab techniques
- Human anatomy and physiology
- Medical terminology
- Diagnostic testing for diseases
- Dissect various animal organs

Industry Certifications and Credentials:

- Sterile Processing Certification (12 points)
- ► OSHA 10 (1 point)

College Credit Opportunities With Sinclair Community College

BIO 1107 Human Biology

HIM 1101 Medical Terminology

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
\Rightarrow	Bachelor's degree	Forensic Science Technicians	\$29.78	\$61,930.00
\Rightarrow	Bachelor's degree	Medical and Clinical Laboratory Technicians	\$27.79	\$57,800.00
	Bachelor's degree	Molecular and Cellular Biologist	\$39.68	\$82,530.00
	Master's degree	Geneticists	\$39.68	\$82,530.00

- I am detail-oriented
- I excel in high school science class
- I am analytical
- I like research and experiments



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 pharmacy, water quality, forensics, biomedical, botany, research, food science, and microbiology. Sharpen lab skills such as micopipetting, aseptic technique, pouring, inoculating and streaking agar plates.

What I will learn:

- Principles and practices of biomedical technology
- Biochemistry of health
- Biotechnology of health and disease
- Genetics of disease

Industry Certifications and Credentials:

► OSHA 10 (1 point)

College Credit Opportunities

Students have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
$\stackrel{\wedge}{\curvearrowright}$	Bachelor's degree	Forensic Science Technicians	\$29.78	\$61,930.00
$\stackrel{\wedge}{\curvearrowright}$	Bachelor's degree	Medical and Clinical Lab Technicians	\$27.79	\$57,800.00
	Bachelor's degree	Molecular and Cellular Biologist	\$39.68	\$82,530.00
	Bachelor's degree	Water Resource Specialist	\$66.30	\$137,900.00
	Master's degree	Geneticists	\$39.68	\$82,530.00

- I enjoy hands-on labs
- I like helping others
- I enjoy learning new things
- I am a team player



Develop the necessary skills to assist dentists and hygienists with patient care, office tasks, and lab duties. Learn patient's oral health education, mixing dental materials, exposing, developing and mounting oral x-rays, infection control, sterilization and chairside assisting for operative and emergency dentistry. Learn general office procedures, patient record keeping, and dental charting.

What I will learn:

- Chairside assisting
- How to take dental x-rays
- Take impressions
- Placement of composite
- Placement of amalgam
- Infection control
- Sterilization procedures
- Bleaching trays

Industry Certifications and Credentials:

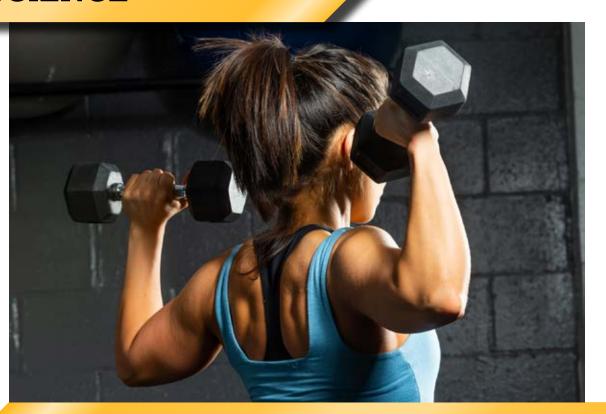
- American Medical Technologists (AMT) –
 Registered Dental Assistant (RDA) (6 points)
- Ohio State Dental Board Dental Assistant Radiographer's Certificate (6 points)

College Credit Opportunities With Sinclair Community College

Students also have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
$\stackrel{\wedge}{\sim}$	HS diploma or equivalent	Dental Laboratory Technicians	\$22.00	\$45,770.00
$\stackrel{\wedge}{\sim}$	Certification	Dental Assistant	\$18.59	\$38,660.00
$\stackrel{\wedge}{\sim}$	Associate's degree	Dental Hygienist	\$37.41	\$77,810.00
	Doctoral or prof. degree	Dentist	\$77.10	\$160,370.00
	Doctoral or prof. degree	Orthodontist	\$100.00	\$208,000.00

- I enjoy exercising
- I am passionate about helping others
- I am energetic
- I am a professional
- I am goal-oriented



Explore a wide range of exercise science, fitness and physical therapy careers. Learn to prevent and treat injuries using techniques based on the principles of anatomy & physiology. Exercise science professionals are needed to address the general wellness needs of the public.

What I will learn:

- Assess body composition
- Apply fitness to help clients reach goals
- Evaluate and treat multiple types of athletic injuries
- Rehabilitate weak muscles
- Medical terminology

Industry Certifications and Credentials:

- Group Fitness Instructor (3 points)
- NASM Certified Personal Trainer (3 points)
- BLS CPR/First Aid (1 point)
- OSHA 10 (1 point)

College Credit Opportunities With Sinclair Community College

ENS 1116 Intro to Exercise Science
ENS 1118 Lifetime Physical Fitness and Wellness

HIM 1101 Medical Terminology
ALH 1130 Basic Life Support Training for Healthcare
Providers

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
\Rightarrow	HS diploma or equivalent	Exercise Trainers and Group Fitness Instructors	\$19.57	\$40,700.00
$\stackrel{*}{\sim}$	Doctoral or prof. degree	Physical Therapist	\$45.97	\$95,620.00
$\stackrel{\wedge}{\curvearrowright}$	Bachelor's degree	Athletic Trainers		\$48,420.00
$\stackrel{\wedge}{\curvearrowright}$	HS diploma or equivalent	Physical Therapist Aides	\$14.04	\$29,200.00
\Rightarrow	Associate's degree	Physical Therapist Assistants	\$29.42	\$61,180.00

- I am detail-oriented
- I am hard-working
- I can follow directions
- I am professional



Explore a wide range of pharmaceutical principles, career concepts, and skills needed to become a pharmacy technician. Students will learn how to read, interpret, and dispense prescriptions. They will learn how medications are classified and administered. Students will study the impact of drugs on different systems of the body, interaction of drugs, side effects and effectiveness in relation to dosages.

What I will learn:

- Patient Care
- Technical Skills
- Ethical Behavior
- Medical Terminology
- Pharmacology

Industry Certifications and Credentials:

Certified Pharmacy Technician (CPhT) (12 points)

College Credit Opportunities With Sinclair Community College

ALH 1101 Introduction to Healthcare Delivery **HIM 1101** Medical Terminology

MAT 1130 Mathematics in Health Sciences

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	HS diploma or equivalent	Pharmacy Aide	\$14.39	\$29,930.00
	HS diploma or equivalent	Pharmacy Technicians	\$17.66	\$36,740.00
	Doctoral or prof. degree	Biochemist and Biophysicists	\$49.17	\$102,270.00
	Doctoral or prof. degree	Pharmacists	\$61.81	\$128,570.00

- I enjoy learning about the body, diseases and treatment for disorders
- I have a caring attitude
- I have good stamina
- I am a professional



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. Explore a range of medical careers through practical lab experiences, clinicals, and related coursework. Develop a professional work ethic and communication and patient care skills.

What I will learn:

- Qualities of a healthcare worker
- Patient care
- Medical terminology
- Infection control
- Lab blood drawing techniques

Industry Certifications and Credentials:

- State Tested Nurse Aide (STNA) (12 points)
- Certified Phlebotomy Technician (12 points)
- Certified EKG Technician (3 points)
- BLS CPR and First Aid (1 point)
- OSHA 10 (1 point)

College Credit Opportunities With Sinclair Community College

ALH 1101 Introduction to Healthcare Delivery **ALH 1120** Nurse Aid Training MAT 1130 Mathematics in Health Sciences

Bachelor's degree

HIM 1101 Medical Terminology ALH 1130 Basic Life Support Training for Healthcare **Providers**

\$37.31

\$77,600,00

CLT 1200 Introduction to Clinical Laboratory

Bright Outlook Median Hourly \$ Median Annual \$ **Career Opportunities** Certification LPN and Licensed Vocational Nurses \$23.11 \$48,070.00 公 Certification **Nursing Assistant** \$14.57 \$30,310.00 $\frac{1}{2}$ Certification \$17.50 \$33,400.00 **Phlebotomist** Associate's degree **Dietetic Technicians** \$14.19 \$29.520.00 公 **Respiratory Therapist** \$29.73 \$61,830.00 Associate's degree $\stackrel{\wedge}{\bowtie}$

Registered Nurses

- I am attentive to detail
- I am a good listener
- I am creative
- I display a positive attitude
- I work well with others
- I display professional ethics



This program is designed in accordance with the State Board of Cosmetology. The student must complete 1500 hours in-school training to become eligible to take the State Licensing Examination.

What I will learn:

- Manicuring, sculpting and polish application
- Facials, masks, packs, and other skin treatments
- Precision hair cutting and shaping
- Hair color techniques
- ► Salon management
- Hot brush, curling iron, and blow drying techniques

Industry Certifications and Credentials:

- State Board of Cosmetology License (12 points)
- ▶ Human Trafficking Certificate

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
$\stackrel{\wedge}{\Rightarrow}$	HS diploma or equivalent	Shampooers	\$11.75	\$24,440.00
$\stackrel{\wedge}{\sim}$	Certification	Massage Therapist	\$22.55	\$46,910.00
$\stackrel{\wedge}{\sim}$	Certification	Skin Care Specialist	\$17.93	\$37,300.00
☆	Certification	Hairdressers, Hairstylists, and Cosmetologists	\$14.26	\$29,670.00
$\stackrel{\wedge}{\sim}$	Certification	Manicurist and Pedicurists	\$14.04	\$29,210.00

- I work well under pressure
- I want to be the change
- I am communityoriented
- I enjoy helping others



Students will engage in hands-on experiences in the criminal justice field. Students will obtain proficiency in handcuffing techniques, weapon retention, and vehicle extractions, as well as the use of force continuum.

What I will learn:

- Investigations
- ► Human relations
- Equipment training
- Community relations
- Regulations and laws
- Defensive tactics
- Mental and physical fitness
- Communication

Industry Certifications and Credentials:

- NIMS 100 (4 points)
- NIMS 300 (4 points)
- NIMS 200 (1 point)
- NIMS 800 (1 point)
- Ohio Peace Officer Training Academy Private Security Certification (4 points)
- CPR/AED/First Aid (1 point)
- ▶ NECC Level 1 Telecommunicator (9 points)
- ► ASP Baton, Taser, OC/Pepper Spray (1 point each)

College Credit Opportunities With Sinclair Community College

CJS 1101 Introduction to Criminal Justice Science

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
$\stackrel{\bigstar}{\sim}$	HS diploma or equivalent	Security Guard	\$15.13	\$31,470.00
	HS diploma or equivalent	Police Officer	\$31.06	\$64,610.00
	HS diploma or equivalent	Detectives and Criminal Investigator	\$40.21	\$83,640.00
	HS diploma or equivalent	Correctional Officers and Jailers	\$23.04	\$47,920.00
\Rightarrow	Associate's degree	Paralegal and Legal Assistants	\$27.03	\$56,230.00
\Rightarrow	Certification	Emergency Medical Technician	\$17.38	\$36,150.00

- I am creative
- I enjoy serving others
- I can multitask and work under pressure
- I enjoy a fast-paced atmosphere



Create professional foods, cakes, and pastries with an artistic presentation. Plan, prepare, and serve meals for casual dining and upscale events. Be a key part of the team that develops complete meals and unique dining experiences.

What I will learn:

- Food Safety
- Knife skills
- ▶ Plate presentation
- Restaurant equipment and maintenance
- Baking basics

Industry Certifications and Credentials:

- ProStart Certificate of Achievement (9 points)
- ServSafe Food Handler (1 points)
- ServSafe Allergen (1 points)
- ServSafe Workplace (1 points)
- ServSafe Manager

College Credit Opportunities With Sinclair Community College

HMT 1107 Sanitation and SafetyHMT 2226 Hospitality Purchasing & NegotiationsHMT 1101 Basic Culinary Skills

HMT 1126 Baking I
HMT 1105 Intro to the Hospitality and Tourism
Industry

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
$\stackrel{\wedge}{\mathcal{M}}$	HS diploma or equivalent	Chef and Head Cooks	\$24.11	\$50,160.00
$\stackrel{\wedge}{\sim}$	HS diploma or equivalent	Cooks, Restaurant	\$14.43	\$30,010.00
$\stackrel{\wedge}{\mathcal{A}}$	HS diploma or equivalent	Waiters and Waitresses	\$12.50	\$26,000.00
☆	Bachelor's degree	Meeting, Convention, and Event Planners	\$23.79	\$49,470.00
$\stackrel{\wedge}{\mathcal{A}}$	Bachelor's degree	Dieticians and Nutritionists	\$29.64	\$61,650.00

URBAN TEACHER ACADEMY

Is This You?

- I enjoy working with young people
- I enjoy talking to people
- I have leadership skills
- ◆ I am organized
- I enjoy helping others



Explore the field of education and related career options in the urban setting. Receive an in-depth view of the teaching profession through project-based experiences and culturally relevant teaching.

What I will learn:

- ▶ Foundations of education
- ▶ Classroom management
- Curriculum and instruction
- ▶ Write, implement, and reflect on lesson plans

College Credit Opportunities With Sinclair Community College

EDU 1100 Introduction to Education

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
$\stackrel{\wedge}{\Longrightarrow}$	HS diploma or equivalent		\$13.22	\$27,490.00
	Some college, no degree	Teaching Assistants, Except Special Education		\$29,360.00
$\stackrel{*}{\cancel{\Delta}}$	Bachelor's degree	Elementary Teacher		\$61,400.00
	Bachelor's degree	Middle School Teacher		\$61,320.00
	Bachelor's degree	Secondary School Teachers		\$61,820.00

- ◆ I am hands-on
- I solve problems
- I have a mechanical aptitude
- I am detail-oriented
- I am a team player



Diagnose, service and repair a wide range of vehicles. Use advanced diagnostic equipment to troubleshoot and repair complex automotive systems all while learning customer service skills.

What I will learn:

- Preventative maintenance
- ► Engine repair/performance
- Automotive electrical systems
- Automotive steering and suspension

Industry Certifications and Credentials:

Automotive Service Excellence (ASE)

Student Certification

- ► Engine Repair (3 points)
- Engine Performance (3 points)
- Brakes (3 points)
- Steering and Suspension (3 points)
- ► Electrical (3 points)
- Maintenance and Light Repair (3 points)

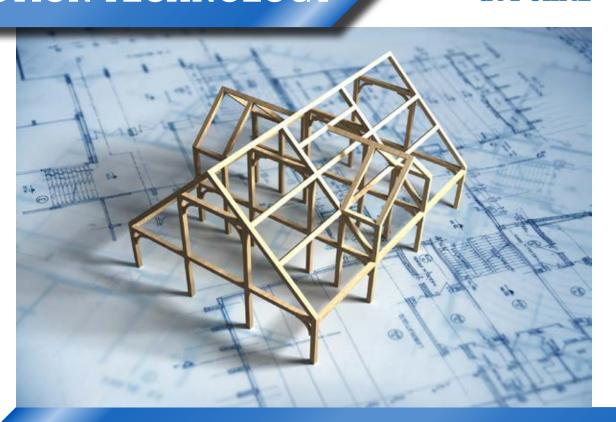
College Credit Opportunities With Sinclair Community College

AUT 1100 Consumer Automotive
AUT 1108 Automotive Engine Systems
AUT 1114 Automotive Electrical/Electronic Systems I

AUT 1116 Auto Steering & Suspensions Systems AUT 1165 Automotive Brake Systems AUT 1102 Introduction to Automotive Service

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
	HS diploma or equivalent	Auto Srv. Technicians and Mechanics	\$22.54	\$46,880.00
	HS diploma or equivalent	Auto Body and Related Repairers	\$22.73	\$47,270.00
	HS diploma or equivalent	Parts Salesperson	\$16.47	\$34,260.00
	HS diploma or equivalent	Tire Repairers and Changers	\$14.22	\$29,580.00
	HS diploma or equivalent	Auto Glass Installers and Repairers	\$18.23	\$37,920.00

- I take pride in my work
- I like to build
- I work well with my hands
- I like to work with others



Learn the fundamentals of carpentry, including framing, installation of windows and doors, stairs, and roofing. Students will also learn computer aided design and develop skills in remodeling and renovation.

What I will learn:

- Carpentry skills
- Computer Aided Design (CAD)
- Safety regulations
- Remodeling/renovation
- Framing

Industry Certifications and Credentials:

- ► Career Connections (12 points)
- ► OSHA 10 (1 point)
- Fork Lift (1 point)
- Bobcat (1 point)

College Credit Opportunities With Sinclair Community College

CAT 1431 OSHA 10 Hour Safety

CAT 1201 Construction Methods and Materials Safety

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	HS diploma or equivalent	Carpenters	\$23.20	\$48,260.00
$\stackrel{\wedge}{\sim}$	HS diploma or equivalent	Construction Laborers	\$18.16	\$37,770.00
	HS diploma or equivalent	Drywaller and Ceiling Tile Installers	\$23.09	\$48,040.00
	Associate's degree	Architectural and Civil Drafters	\$29.01	\$60,340.00
$\stackrel{\wedge}{\hookrightarrow}$	Bachelor's degree	Construction Manager	\$47.55	\$98,890.00

ENGINEERING TECHNOLOGIES

Is This You?

- I am analytical/ mathematical
- I am curious
- I am a problem solver
- I am self-motivated



Prepares students to be innovative and productive leaders using engineering principles, mathematics, and critical thinking skills. Students are exposed to the engineering pathways and learn the skills of a high demand of the global economy.

What I will learn:

- Fundamentals of engineering
- 3D imaging/printing
- Concept of engineering assembly
- Basics of electrical circuitry
- Basic programming of engineering machines

Industry Certifications and Credentials:

- SolidWorks Association (4 points)
- AutoDesk Inventor Certified User (4 points)

College Credit Opportunities With Sinclair Community College

EET 1150 DC Circuits

MET 1371 CAD Concepts Using AutoCAD

Students also have the opportunity to earn up to four college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly \$	Median Annual \$
	Bachelor's degree	Electrical Engineer	\$48.28	\$100,420.00
	Bachelor's degree	Civil Engineer	\$42.33	\$88,050.00
	Bachelor's degree	Mechanical Engineer	\$45.82	\$95,300.00
$\stackrel{\wedge}{\sim}$	Bachelor's degree	Industrial Engineer	\$45.82	\$95,300.00
	Bachelor's degree	Computer Hardware Engineers	\$61.62	\$128,170.00

ROBOTICS ENGINEERING

Is This You?

- I am precise
- I like working with my hands
- I pay attention to detail
- I have a good eye for design
- I like knowing how things work



Invent, design, and manufacture tools and components using advanced computer-controlled technology. Program, troubleshoot, and repair robotics, hydraulics, air and electrical systems. Work daily with the same equipment and techniques as industry leaders.

What I will learn:

- Computer Aided Drafting and additive manufacturing
- ► Electrical/mechanical maintenance, troubleshooting, and repair
- Robotics programming, material handling
- Machining programming
- Laser etching, engraving, and cutting

Industry Certifications and Credentials:

- FANUC Handling Tool Operation & Programming (6 points)
- Motoman Basic Programming with Material Handling (6 points)
- Allen Bradley/ Rockwell Automation PLC (6 points)
- ► FANUC Certified CNC Machining Center Programming, Setup, and Operation (4 points)
- Certified Solid Works Associate (CSWA) (4 points)
- OSHA 10 Hour Certificate (1 point)

College Credit Opportunities With Sinclair Community College

OPT 2205 Manufacturing Processes, **MET 1301** Solidworks Basics. **EGR 2252** Teach Pendant Robot Programming Students also have the opportunity to earn three college credits through Ohio's statewide articulated career-technical credit transfer opportunities.

Bright Outlook	Education	Career Opportunities	Median Hourly\$	Median Annual \$
	HS diploma or equivalent	Machinists	\$22.95	\$47,730.00
$\stackrel{\wedge}{\mathcal{A}}$	HS diploma or equivalent	Maint. and Repair Workers, General	\$20.76	\$43,180.00
	HS diploma or equivalent	CNC Tool Operators	\$22.42	\$46,640.00
	Associate's degree	Robotics Technician	\$29.02	\$60,360.00
	Bachelor's degree	Robotics Engineer	\$48.38	\$100,640.00



Criteria for Honors Diplomas

Subject	Academic Diploma	Career-Technical Diploma
	with Honors	with Honors
English	4 units	4 units
Mathematics	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher-level course or a four-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher-level course or a four-year sequence of courses that contain equivalent content
Science	4 units, including two units of advanced science	4 units, including two units of advanced science
Social Studies	4 units	4 units
World Languages	3 units of one world language or 2 units each of two world languages	2 units of one world language
Fine Arts	1 unit	NA
Career-Technical	NA	4 units of career-technical courses
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT/ WorkKeys	ACT: 27 SAT: 1280	ACT: 27 SAT: 1280 WorkKeys: Reading for Information – 6 Applied Mathematics – 6
Field experience	NA	Complete a field experience and document the experience in a portfolio specific to the student's area of focus
Portfolio	NA	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts
Additional Assessment	NA	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent

Frequently Asked Questions

Career-Technical Education (CTE) provides students with academic and technical skills, knowledge, and the training necessary to succeed in future careers and post-secondary education. DPS offers 26 CTE programs in 12 career fields.

What is the daily schedule?

Full day, five days per week. The start and end time of the school day varies by DPS school. The school day consists of hands-on career technical program courses, English, science, social studies, math, and elective classes.

Do I still take academic courses (English, math, science, and social studies)?

Yes. CTE students must meet the same academic graduation requirements as traditional high school students.

Do I have to have my own transportation?

Transportation varies each year. Pre-Apprenticeship, Internship, Advanced Placement, and Open Enrollment students must provide their own daily transportation.

Is there a cost to be in a CTE program?

Maybe. Some programs have program fees.

Can I still go to college if I take a Career-tech program?

Dayton Public School CTE students have the opportunity to earn scholarship money and college credit through College Credit Plus, Tech Prep programs, and CTAGs. Most CTE programs have multiple opportunities for students to earn college credits.

Can I still participate in sports?

Yes. Students who meet eligibility requirements can participate in all extra-curricular activities.

When do I start my program?

Most CTE programs begin in the 10th grade. CTE programs at Stivers begin in the 11th grade. Students begin preparing for their CTE program in the 9th grade.

Do I have to wear a uniform?

All DPS schools have a dress code. Some schools have a uniform, which must be purchased.

Can I leave during the school day to go to work?

Students may leave school for work-based learning experiences, such as internships, preapprenticeships, etc. This privilege is for senior students who are on track to graduate.

Dayton Public Schools does not discriminate on the basis of race, color, national origin, sex, disability, or age for participation in any program or activity. Lack of English language proficiency will not be a barrier to admission and participation in career-technical education programs.

How to Apply for Admission

Applying to a Dayton Public Schools Career-Tech program is easy. Complete the application for admission online at www.dps.k12.oh.us/career-and-tech-education-opportunities/. Or scan the QR code to the right and complete the application from your smartphone.



Not a DPS student? You can still apply for admission to our Career-Tech programs. We have open enrollment and encourage you to apply online.

Important Dates

DPS has established the following admissions procedure and schedule:

Nov. 27, 2023: Application opens.

Dec. 22, 2023 to Jan. 4, 2024: First round review. All completed applications will be reviewed. Priority will be given to Dayton Public Schools students.

Jan. 5 to Jan. 18, 2024: Second round review. All completed applications will be reviewed. Priority will be given to Dayton Public Schools students.

Program admissions may be limited due to factors such as, but not limited to, space, equipment, and safety.

Preference For Admission

Preference for admission shall be given in the following order:

- Students who submit a completed application and provide all needed records in a timely manner.
- Incomplete applications will be reviewed if openings still exist in the program for which the student has applied.

Current 8th graders applying for a 9th grade seat:

- If a program becomes over subscribed, admissions will be determined by a lottery system.
 - All students' names will be placed into a program. Student's names are drawn randomly. These students will receive an acceptance letter.

Current 9th graders applying for a 10th grade seat:

- Ninth grade students will be selected to fill available seats. If a program is over subscribed, admissions will be determined by a lottery system.
 - All students' names will be placed into a program and will be picked out at random. Students who are picked will receive an acceptance letter.
 - If no seats are available, then no acceptance letter will be sent.

Their Future...









...Is Our Legacy
DAYT-N

Career-Technical Education