

# PENTA 2024-2025 CAREER-TECHNICAL PROGRAM GUIDE



DREAM. EXPLORE. SHINE.

*Discover Your Passion!*



# Why CTE?

*Career-technical education (CTE) engages students and prepares them with the skills they need for fulfilling careers in vital, in-demand industries and occupations.*

**3,753** industry credentials were earned by Penta students during the 2022-2023 school year.\*

**4,345** CCP credits were earned by Penta students during the 2022-2023 school year through on campus and satellite programs.\*

**688,479** work-based learning hours were achieved by Penta students during the 2022-2023 school year.\*

\*Source: Penta Career Center

## ABOUT PENTA & CAREER-TECHNICAL EDUCATION (CTE)

Since 1965, Penta Career Center has shaped the careers of more than 30,000 professionals. You, too, can benefit from Penta's career-technical training. Penta prepares students for college, a career, the military, or wherever their paths may lead. In addition, students learn what is expected in the world of work.

### ACADEMICS

Penta prepares students for careers and post-secondary education by offering academic courses in both a traditional 43-minute period for select courses and in a 90-minute block format. The courses are aligned with Ohio's K-12 academic content standards. Through their academic courses, students participate in a variety of project-based learning experiences. Some of the academic courses offered include:

Algebra I & II

American History

Anatomy & Physiology I & II

Chemistry

Environmental Science

Forensic Science

Geometry

Physics

Pre-Calculus

Psychology

World Issues

### COLLEGE CREDITS

Penta offers FREE College Credit Plus (CCP) options through Owens Community College. FREE Career-Technical Credit Transfer (CT2)/Career-Technical Assurance Guide (CTAG) college credit is also available. Check with Penta for more information on all college credit options, which can lead to time and/or money-saving post-secondary opportunities.



### ADVANCED CAREER & SIMULTANEOUS CREDITS

Penta prepares students for a wide array of post-secondary and career options through our Advanced Career curriculum. By fusing a rigorous academic core with challenging project work and advanced technology in a career pathway program of study, Advanced Career courses give students a greater depth of knowledge and skills to prepare them for more options after high school.

Current Advanced Career courses offered at Penta include: Automated Materials Joining Technology through the Sophomore Manufacturing Academy; and Clean Energy Technology. Students also earn simultaneous academic credit through Clean Energy Technology (Math and Science credit).

Penta also offers simultaneous credits in three other career-technical programs. Exercise Science & Sports Medicine juniors earn Anatomy & Physiology credit. Seniors in the Medical Technologies Academy, Dental Assistant and Exercise Science & Sports Medicine programs receive credit in English.

### BUSINESS & INDUSTRY CERTIFICATIONS

Students have the opportunity to earn important business and industry credentials while in high school. After successfully completing an exam, students may qualify for program-specific certifications or state licenses. These credentials indicate to employers that students have the skills necessary for immediate employment.

## SCHOLARSHIPS

All students are eligible to apply for post-secondary scholarships. Each year, Penta students earn scholarships through colleges and universities, service organizations, foundations, schools, Career-Technical Student Organizations, and through many other sources. Scholarship opportunities are posted regularly at [pentacareercenter.org](http://pentacareercenter.org) and through the Student Services & Admissions Office.

## STUDENT ACTIVITIES

Students are encouraged to continue to participate in extracurricular activities at their member schools. While attending Penta, students become members of Career-Technical Student Organizations (CTSOs) including:

- Business Professionals of America (BPA)
- DECA
- Family, Career and Community Leaders of America (FCCLA)
- FFA
- HOSA: Future Health Professionals
- SkillsUSA

*Just like clubs at the member schools, Penta students can get involved in:*

- Drug Free Club
- Esports
- National Technical Honor Society
- Student Ambassadors
- Tabletop Adventures





# HOW TO APPLY

Applying to Penta Career Center is easy for high school students enrolled in one of Penta's 16 member school districts. Students interested in career-technical programs can apply online at [pentacareercenter.org](http://pentacareercenter.org). Applications should be received by **January 16, 2024** for priority consideration. Further information is available by contacting Tricia Hornyak, admissions representative, at 419-661-6498.

## ATTEND PENTA AS A SOPHOMORE

Penta offers the Sophomore Exploratory program and the Advanced Manufacturing Academy for students who are interested in exploring career-technical fields on Penta's campus. Freshmen interested in applying to these programs can apply online. Sophomores will explore many career options, earn academic credits, and receive small group and one-on-one career and life skills mentoring. As part of the admissions process for this program, students will participate in a career assessment during their freshman year. To begin the application process, visit [pentacareercenter.org](http://pentacareercenter.org) and click on "EXPLORE PENTA."



## ADDITIONAL CAREER-TECHNICAL PROGRAMS & SERVICES

Career-technical programs are also offered as early as tenth grade for students who would benefit from specialized instruction and support services. Admission to these programs requires a referral from the student's high school counselor. Students may be referred for a career assessment.

*These programs include:*

- Automotive Technology
- Construction & Building Maintenance
- Culinary & Hospitality Services
- Horticulture – Floral & Greenhouse Services
- Horticulture – Landscaping & Outdoor Systems
- Inventory & Warehouse Operations
- Medical Technologies
- Welding

Each of these programs may include participation in the Transition-to-Work program.

Additionally, Penta offers Job Training and TIES (Transition to Independence, Employment and Success) programs for students who may require assistance in preparing for their future. All of these programs provide specialized personnel to meet students' individual needs.

For more information on these programs and services, see your high school counselor.

## CAREER ASSESSMENT SERVICES

Career Assessment Services at Penta assists students in realistic planning for the future by helping them discover their interests, abilities, career preferences, and learning styles. Certified Career Assessment staff work with individual students to support them in determining options for their high school education and beyond. Students interested in enrolling at Penta as a sophomore will complete a career assessment during their freshman year. High school students at other grade levels can request a career assessment by contacting their school counselor.

# OTHER OPTIONS

## CAREER BASED INTERVENTION (CBI)

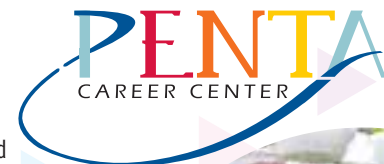
Penta offers CBI programs in satellite locations for those students who are behind in credits and are at-risk for dropping out of school. Through a cooperative effort between employers, parents/guardians, and the school, students learn to become productive workers and earn credits toward graduation. Applications for this program are available on the Penta website, [pentacareercenter.org](http://pentacareercenter.org) under the High School/Admissions tab.

## SATELLITE PROGRAMS

Penta offers career-technical options at our member school districts. These classes can be a pathway towards a program at Penta's main campus.

*Options include:*

- Agriculture Education
- Business
- Business & Financial Services
- Construction Foundations
- Family & Consumer Sciences
- Interactive Media
- Marketing Education



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APPLY BY JANUARY 16, 2024

## HIGH SCHOOL CAREER-TECHNICAL PROGRAMS

Penta career-technical programs focus on preparing students for immediate employment and further education/training. Students can benefit from a variety of opportunities which may include:

- Early job placement
- Internships
- College credit
- Industry Credentials
- Scholarships
- Memberships in Career-Technical Student Organizations

Visit [pentacareercenter.org](http://pentacareercenter.org) and click on "EXPLORE PENTA" to learn more.

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### AUTOMOTIVE COLLISION REPAIR

- Repair and refinish vehicle surfaces using modern welding, sanding, masking, and custom painting techniques
- Assess damage and estimate repair costs to restore damaged vehicles to factory specifications
- Utilize the same advanced equipment as master technicians

### AUTOMOTIVE TECHNOLOGY

- Work on any car in a rapidly changing industry using a full systems approach
- Analyze, diagnose, maintain, and repair basic and advanced automotive systems
- Use the same advanced diagnostic and repair equipment as master technicians

### COMPUTER-AIDED DESIGN

- Visualize and construct 3D models and prototypes for mechanical designs
- Find creative solutions to complex engineering challenges
- Use the same advanced software and modern equipment as professional engineers



### CONSTRUCTION CARPENTRY

- Work in all aspects of construction including estimating, framing, roofing, and interior finishing
- Plan, manage and complete commercial, residential and community projects
- Operate a wide range of power tools and professional equipment

### CONSTRUCTION CONCEPTS

*(For Seniors Only)*

- Learn introductory construction safety, skills and concepts
- Operate a wide range of power tools and professional equipment
- Plan and manage projects from concept to completion



### CONSTRUCTION ELECTRICITY

- Design and install commercial and residential power systems from "rough in" to "finish"
- Power advanced motor controls while utilizing specialized tools and equipment
- Work with professional electricians on commercial, residential and community projects

### CONSTRUCTION MASONRY

- Construct a variety of brick, block, stone, and concrete projects in the community
- Design and create long-lasting residential and commercial structures
- Use the same techniques and equipment as professional masons

### CONSTRUCTION REMODELING

- Work in carpentry, masonry, plumbing, electricity, and interior finishing
- Plan and manage projects from concept to completion
- Utilize professional hand and power tools including specialized cabinet making equipment

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## COSMETOLOGY

- Operate and experience a full-service interactive salon and spa environment
- Use individual creativity along with art, science and business skills to provide a wide range of artistic hair, nail and skin care services
- Deliver a full range of professional salon treatments to exceed client expectations leading to Ohio State Board of Cosmetology licensure



## CRIMINAL JUSTICE

- Explore a wide range of experiences in criminal investigations, forensics, emergency response to terrorism, corrections, Ohio Revised Code, ODRC Provisional Correctional Officer training, and self defense
- Engage in the rigorous OPOTA curriculum to earn a private security license and other industry credentials
- Experience high energy physical training and role play the day-to-day duties of a police officer

## CULINARY ARTS

- Work with professional chefs to create gourmet foods with artistic presentation while earning industry-recognized credentials
- Become a key part of the team that develops entire meals and unique dining experiences in a full-service restaurant
- Plan, prepare and serve catered meals for upscale community events and casual dining

## DENTAL ASSISTANT

- Deliver quality patient care alongside dentists, dental specialists, hygienists, and office personnel
- Prepare patients, instruments, materials, and treatment areas for a wide range of dental procedures
- Use the same specialized equipment as practicing professionals within the dental laboratory, sterilization and radiology labs



## DIGITAL ARTS & DESIGN

- Create high-impact web pages, and print/graphic designs using advanced Adobe® programs and software applications
- Develop, design and produce promotional materials using traditional and digital art to exceed client expectations
- Edit and manipulate photos and video using professional digital equipment

## DIGITAL VIDEO PRODUCTION

- Develop, produce and deliver unique video and audio projects for TV and commercial broadcast from concept to completion
- Work individually and in teams to create dynamic films, documentaries, music videos, sportscasts, and newscasts
- Utilize creative and artistic talents using professional equipment and media to exceed client expectations



## EARLY CHILDHOOD EDUCATION

- Experience the excitement of working with preschoolers and infants in an onsite, state licensed early learning center while earning CDA certification
- Influence the future of children by shaping their intellectual, social, emotional, and physical development through dynamic teaching strategies
- Create, research and provide developmentally appropriate learning materials and activities for children from birth to 5-year-olds

## EXERCISE SCIENCE & SPORTS MEDICINE

- Explore a wide range of career options related to personal/group fitness, athletic training, and physical and occupational therapy
- Assess an individual's overall fitness, endurance and nutritional status to develop a personal improvement plan
- Use professional equipment and techniques to assist with injury prevention and rehabilitation





## FIREFIGHTER

- Work with firefighters, emergency medical and public safety professionals in the community
- Experience ways to combat different types of structure fires and the necessary protocols involved
- Operate a wide range of firefighting, security and life-saving equipment, while training to earn state firefighter certifications



## HEATING & AIR CONDITIONING TECHNOLOGY

- Design, fabricate and install heating, ventilation, air conditioning, and refrigeration systems
- Plan, manage and complete residential and commercial projects in the community
- Utilize professional tools and equipment to diagnose and repair advanced systems

## INDUSTRIAL MAINTENANCE

*(For Seniors Only – Bowling Green Campus)*

- Troubleshoot, maintain and repair machinery, industrial equipment and hydraulic and pneumatic systems
- Work with piping, electrical, robotic, and mechanical components widely used in manufacturing
- Learn the fundamentals of welding using various processes, techniques and materials

## INFORMATION TECHNOLOGIES ACADEMY

- Assemble, operate, install, upgrade, troubleshoot, and repair a wide variety of computers, information systems, software applications and network systems; and become a certified technician
- Use high-tech tools and industry techniques to explore specializations in the fields of cybersecurity, advanced networking, programming, computer game design, robotics, electronics, and more
- Gain real-world experience through public service and community involvement

## MARKETING EDUCATION

- Experience a wide range of dynamic business strategies for creating, communicating and delivering products and services to customers
- Design and implement powerful marketing and management plans to solve real-world business challenges
- Work with marketing professionals in a competitive business management setting

## MEDICAL OFFICE MANAGEMENT

- Provide high-quality customer service, as part of a professional team, in a wide range of environments such as financial institutions, hospitals, doctor offices and health insurance facilities
- Integrate ethical standards, confidentiality and professionalism when interacting with patients, clients and employers
- Experience software applications, computer technology and simulations from initial consultation to final billing



## MEDICAL TECHNOLOGIES ACADEMY

- Work with health care experts to provide quality patient care
- Explore a wide range of career options in nursing, nursing assistant, phlebotomy, pharmacy technician, home health aide, dietary aide, and other health care professions
- Practice a variety of health care processes, techniques and diagnostic procedures in a professional environment

## PHLEBOTOMY

*(For Seniors Only located at the Springfield Schools Administrative Complex)*

- Learn fundamental skills in the areas of blood-drawing, point-of-care testing and specimen preparation
- Understand the importance of patient care and maintaining accurate records and data
- Master the principles and practices used in hospitals and healthcare facilities to control and minimize the spread of infection and disease

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## POWERSPORTS & ENGINE SYSTEMS

- Service snowmobiles, motorcycles, personal watercraft, tractors, and lawn and agricultural equipment
- Troubleshoot, weld, maintain and repair small engines, recreational equipment and compact diesel equipment
- Use the same tools and techniques as professionals

## PRECISION MACHINING

- Work with Computer-Aided Manufacturing (CAM) software and machines to automate manufacturing processes
- Operate industrial lathes and mills that are used everyday in the manufacturing industry
- Design, create and build high-tech parts using precision measuring instruments



## ROBOTICS & AUTOMATION

- Learn the fundamentals of electricity and electronics while exploring how industrial control systems and automation systems are designed and operated
- Program, operate and troubleshoot common industrial control devices used in today's manufacturing industry
- Work with industrial robots and integrate robots with other programmable devices and systems

## SMALL ANIMAL CARE

- Provide daily care to a variety of animals while working closely with veterinarians, biologists, technicians, and specialists
- Explore veterinary science, surgical procedures, disease prevention, grooming, and training
- Deliver quality customer service in a retail store environment



## TEACHING PROFESSIONS

*(Located on the campus of Bowling Green State University)*

- Work with area educators, through field experiences, to create and implement research-based lessons for elementary, junior high and high school students
- Discover future career opportunities in education-related fields and develop a professional portfolio to help prepare for post-secondary education
- Develop self-confidence and build leadership and networking skills by working with classmates in a university classroom setting, while earning college credit through Bowling Green State University



## WELDING

- Use advanced welding techniques and fabrication equipment to design, engineer and assemble metal components
- Design and fabricate products to solve manufacturing challenges for clients
- Interpret blueprints to meet critical design specifications







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## MEMBER SCHOOLS

Penta serves the following school districts:

Anthony Wayne	Lake	Rossford
Benton-Carroll-Salem	Maumee	Springfield
Bowling Green	North Baltimore	Swanton
Eastwood	Northwood	Woodmore
Elmwood	Otsego	
Genoa	Perrysburg	



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[pentacareercenter.org](https://pentacareercenter.org)



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2018, 2020, 2022 & 2023  
Pacesetter School  
Award Winner



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