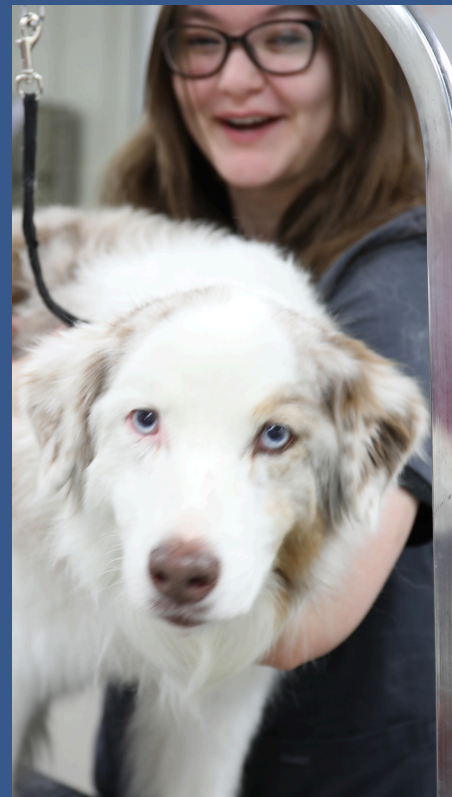




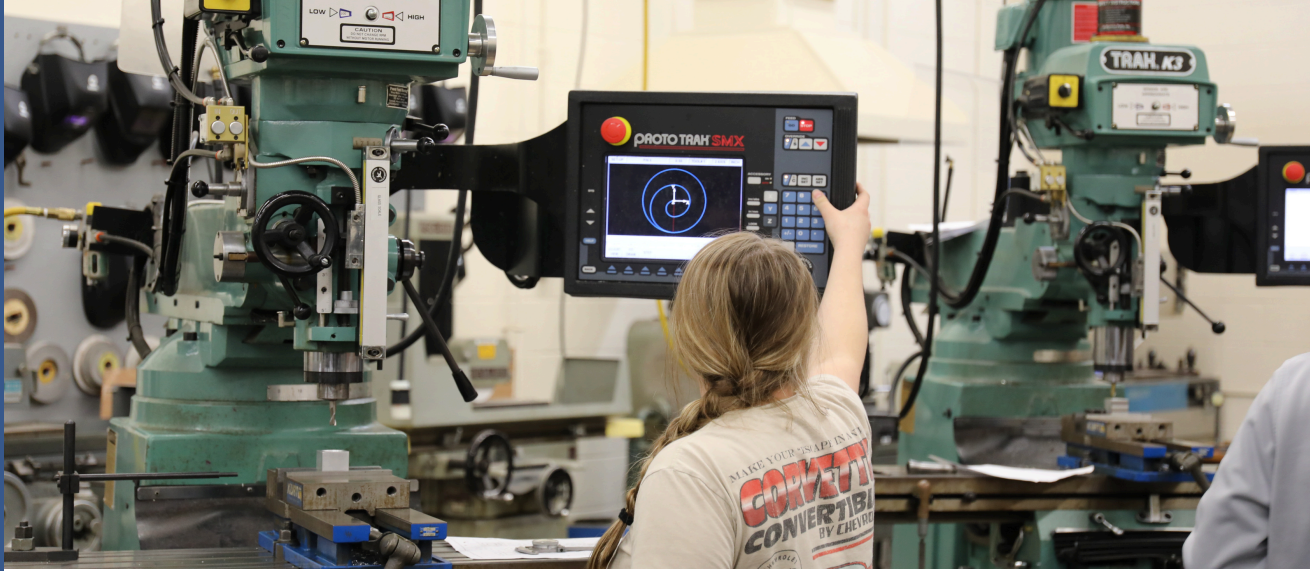
**WAYNE - FINGER LAKES**  
Board of Cooperative Educational Services

# CTE Program Guide



**2024 - 2025**

[www.wflboces.org](http://www.wflboces.org)



## Advanced Manufacturing and Engineering (AME)

Students apply machining, welding, and CAD skills in different manufacturing operations. The machining and welding equipment includes lathes, mills, computer numerically controlled (CNC) machines, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, oxy fuel cutting/welding, as well as various precision-measuring tools. CAD software includes AutoCAD, SolidWorks, and Mastercam for designing and fabricating projects in the shops.

## Animal Science

The Animal Science program prepares students for a wide range of careers related to animal care. The class has a large variety of animals living on-site to learn from. In this program, students learn anatomy and physiology, safety, how to operate a small grooming business, and how to recognize healthy and unhealthy pets.





## Auto Body

In Auto Body Repair, students rebuild vehicles damaged in accidents and restore classic cars. The program gives students the opportunity to practice learned skills on customer ordered work and projects. Seniors participate in a mandatory co-op. Each day the students display a drive for customer satisfaction and absolute quality.

## Auto Technology

Automotive Technology students become skilled in diagnosis and repair, following national standards set by ASE. After guided practice on program-owned and customer vehicles, each student will be prepared for ASE tests in each of ten areas for ASE Student Certification. Seniors can participate in co-ops at local dealerships and independently-owned local businesses.





## Carpentry

The Carpentry program focuses on residential construction and remodeling. Students begin perfecting basic skills using industry standard tools. Students construct sheds during their first year, then apply those skills to construct a house for Habitat for Humanity. Students also may have the option of learning finish carpentry skills. The program employs a standardized curriculum developed by and consistently updated by construction trades industry experts through the National Center for Construction Education and Research (NCCER).

## Computer Programming and Video Game Design

Computer Programming & Video Game Design enables students to learn software development, game programming, and computer network support. After mastering Java programming, students may choose to specialize in computer programming and video game design or computer hardware and network operating systems through online tools and certification exams.





## Cosmetology

Over the course of the 2-year program, Cosmetology students learn all about hair, nails and esthetics. Learning the theory and practicing the skills gives students the knowledge needed to prepare for the New York State Cosmetology Licensing Exam. Upon completion of 1000 hours, students may register for their NYS Boards and apply for their temporary NYS license to begin working in a salon. After taking and passing both the written and practical NYS exams, students will obtain a permanent license as a professional cosmetologist.

## Criminal Justice

Criminal Justice is a broad-based career exploration program intended to give students skills, knowledge and occupational opportunities in the field. The program includes the study of civil and criminal law, providing a strong foundation for entry into the security field or for advanced training at a police academy or college.





## Culinary Arts

The Culinary Arts program allows students to experience the restaurant business while working to build skills in a brigade-style commercial kitchen. Students will observe demonstrations and apply theory-based cooking techniques, constructing a wide range of dishes for different meals and settings. The program's first year focuses on the fundamentals of culinary skills and techniques. In the second year, students focus on building off the basics to a higher level of technique, which prepares them for an entry-level restaurant position or college/culinary school.

## Electrical Trades

In Electrical Trades, students learn the skills necessary to succeed in residential and commercial wiring fields. In addition, students learn electrical theory of commercial, residential, and alternative electricity. This program also provides instruction in the National Electrical Code and on-site work experience.





## Diesel Technology

The Diesel Technology Program provides training in the skills needed for entry-level employment in the agricultural, industrial, and commercial vehicle industries. Students learn to operate, service, and maintain all types of gasoline and diesel engines, including hydraulics, electrical/fuel systems and power trains. Students develop skills in welding, machining, troubleshooting, and repair of vehicles and agricultural machinery. Through hands-on application, students will experience working in a well-equipped modern facility. If appropriate, students will also have the opportunity to prepare for a New York State Commercial Driver's License (CDL Class B).

## Emergency Services Academy

The Emergency Services Academy prepares students for careers in the industry related to Criminal Justice and Emergency Medical Services. Students can graduate with either NYS Registered Guard License or Emergency Medical Technician 1 certification. Furthermore, students may earn AHA CPR/AED, First Aid, and the 100-hour Basic Protection First Responder course certifications.





## Heavy Equipment Repair and Operation

In the Heavy Equipment Repair & Operation program, students are introduced to career areas in heavy equipment operation and maintenance. Students learn diagnosis procedures and skills integral to repairing and reconditioning machinery. Heavy Equipment Repair and Operation offers OSHA 10 and forklift certification. Additionally, students can prepare for a NYS Commercial Driver's license (CDL Class A & B).

## Health Careers

The Health Careers program provides the basic knowledge and competencies common to careers in the healthcare field. Students are prepared to meet competencies to become a Certified Nurse Assistant. Students take part in long-term care and hospital clinical experience that provide the added training and education requirements needed for the NYS Nurse Assistants Exam. The program includes exploration of other health-related careers.





## Graphic Media Production

The Graphic Media Production Program teaches the Macintosh Operating System national skills standard and includes software instruction in Adobe Photoshop, Illustrator, InDesign, Dreamweaver, and Flash. This program provides instruction in design, layout, and the reproduction of artwork in advertising. Both hand and computer illustration skills are developed. At the end of each year, every student will have completed a creative portfolio for use during employment searches and the post-secondary application process. This course of study provides students with the basic technological skills necessary for careers in this growing industry.

## New Vision Health Therapy Sciences

The New Vision Health Therapy Sciences program is comprised of lecture and experience-based instruction designed to prepare students for post-secondary study. Students have opportunities to learn from a practicing professional in the medical field and engage in a rich experience in the classroom as well as the possibility of engaging in field-based internships in various related professional settings.





## New Vision Medical Careers

The New Vision Medical Careers program's goal is to provide an interdisciplinary and experiential learning opportunity to high school seniors interested in pursuing health careers. In cooperation with community hospitals, this one-year program offers college-level academics with extensive health care field exploration. Students routinely attend clinical rotations in their community hospital. The interdisciplinary classroom approach allows students to study English, government, economics and health sciences simultaneously and apply this practice-based learning in a multi-disciplinary professional environment.

## New Vision Veterinary Assistant

The New Vision Veterinary Assistant program is designed to give high school seniors the opportunity to investigate future college and professional career pathways within veterinary science. Both theory and hands-on experiences are introduced in this program. This program's hallmark, like all New Vision programs, is access to a possible placement within a clinical setting specific to the field of study. Students are also exposed to rigorous college-level academics with faculty teaching specialty area college level courses in English and Science.





## Professions In Education and Human Services

Students in the Professions in Education and Human Services program are immersed in a culture that expands their knowledge and experience in the areas of: special education, areas of human development (physical, intellectual, social-emotional), professional ethics, developmentally appropriate practice (pedagogy), classroom management, lesson planning, positive guidance techniques, historical perspectives of education, research, presentation skills, and career pathways in teaching and in human service careers. Students further develop their knowledge and skills as they complete field experiences in UPK-12 classrooms of their choice.





The Wayne-Finger Lakes Board of Cooperative Educational Services (BOCES) Pathways Technology Early College High School (PTECH) is a specialized educational program designed to prepare high school students for careers in technology-related fields. PTECH operates through strong partnerships between Wayne-Finger Lakes BOCES, Finger Lakes Community College, 25 local school districts, and industry leaders. Industry partnerships include BOCES, Finger Lakes Advanced Manufacturer's Enterprise, GW Lisk, Creation Technologies, ITT, and Optimax to name a few.

In addition to these partnerships, PTECH offers a rigorous curriculum, workplace readiness, an extended timeframe, and all at no cost to students. Associations with industry partners provide students with real-world exposure and mentorship, enhancing their educational experience beyond traditional classroom learning. PTECH integrates high school education with college-level coursework, enabling students to earn both their high school diploma and an associate degree in a technology-related field. This dual credentialing prepares graduates for immediate entry into the workforce or continued education. At PTECH, students are immersed in project-based and collaborative learning, fostering creativity and innovation. Emphasis is placed on developing real-world workplace skills through their coursework and hands-on projects. Through industry partnership, students have opportunities to participate in internships, job shadowing, and mentoring.

The program includes four years of high school and students also have the flexibility to earn their associates degree at the same time or up to two additional years. Upon conclusion of the program, students are prepared for the transition to higher education or the workforce. Overall, Wayne-Finger Lakes BOCES Pathways Technology Early College High School offers a structured pathway for motivated students interested in technology careers. Students gain the knowledge and skills to excel in technology fields, combining academic excellence with practical workplace experiences to better prepare them for success in the 21st-century workforce. The PTECH program allows for the removal of financial barriers to a student and their family in their pursuit of an associate's degree in a technology field.





**Interested in learning more? Reach out!**

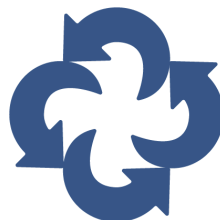


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