



CAREER & TECHNICAL EDUCATION PROGRAM GUIDE



2025/2026
www.wflboces.org



W-FL BOCES CTE PROGRAM GUIDE



ADVANCED MANUFACTURING & ENGINEERING (AME)

AME is made up of three programs that students can choose from, Machining, Welding and Computer Aided Design. In the Junior year, students are exposed to components of all three fields of study; in the Senior year, students will choose one of the three fields of study to focus on. 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.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



ANIMAL SCIENCE

The Animal Science program at each Wayne-Finger Lakes BOCES location offers students a comprehensive and immersive introduction to careers in the animal and agricultural industries. This hands-on program combines classroom instruction with real-world experiences to prepare students for success in a variety of animal-related fields. Students actively engage with a variety of in-class animals while gaining practical skills through grooming services, basic dog training, and animal care routines. The curriculum includes foundational studies in animal anatomy, physiology, behavior, and enrichment, ensuring a strong scientific understanding to support applied learning. Enrichment opportunities such as field trips, guest speakers, community-based field placements, and dissections deepen student knowledge and expose them to diverse career paths. Employability skills are woven throughout the program, emphasizing professionalism, communication, and teamwork. Graduates of the Animal Science program leave with the knowledge, experience, and confidence to pursue further education or enter the workforce.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



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.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



W-FL BOCES CTE PROGRAM GUIDE



AUTOMOTIVE TECHNOLOGY

Automotive Technology prepares students to enter the automotive service industry or continue their education at a trade school or college-level automotive program at the end of their high school career. Students will be trained on a variety of vehicles, some of which are program-owned while others are customer-owned, using state-of-the-art diagnostic, service tools and repair information so our graduates can hit the ground running when they enter the workforce. Our study topics include the eight (8) core areas of the Automotive Service Excellence (ASE) certification system. These topic areas include Engine Repair, Automatic Transmission/Transaxle, Manual Drive Train & Axles, Suspension & Steering, Brakes, Electrical/Electronic Systems, Heating & Air Conditioning and Engine Performance (Drivability). All students will have the opportunity to take ASE Student Certification tests to gain credentials as well as OSHA-10 automotive, American Lift Institute and, after passing written and hands-on tests, receive Technical Endorsement on their completion certificate. 2nd year students will have the chance to participate in workplace internships where the student will go to work in a local automotive repair shop to gain useful insight and real-world experience before continuing education or entering the workforce.

Industry Credentials Available: 9 potential ASE Student Certifications, OSHA-10 Automotive, American Lift Institute Lift Certification

Locations Offered: FLTCC & WTCC



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).

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



COMPUTER PROGRAMMING & VIDEO GAME DESIGN

Computer Programming & Video Game Design enables students to learn software development, game programming, and other related topics. Students study programming languages such as Java and C#, 3D modeling software such as Blender, and game development software such as Unity. Students will develop games from concept to delivery inside of a student run business organization. Students will develop hard and soft skills in an active programming work environment that models what they will experience in the real world.

Industry Credentials Available: CompTIA certifications

Locations Offered: FLTCC & WTCC



W-FL BOCES CTE PROGRAM GUIDE



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.

Industry Credentials Available: XX
Locations Offered: FLTCC & WTCC



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.

Industry Credentials Available:
Locations Offered: FLTCC & WTCC



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).

Industry Credentials Available:
Locations Offered: FLTCC



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.

Industry Credentials Available:
Locations Offered: FLTCC & WTCC



W-FL BOCES CTE PROGRAM GUIDE



EMERGENCY SERVICES ACADEMY

The Emergency Services Academy (ESA) at WFL BOCES strives to prepare our students with the knowledge and skills that are required in a fast paced, ever-changing world. The program is made up of NYS Certified CTE curriculum in Criminal Justice and Emergency Medical Services. Students will be college or career ready at the end of their two years at the ESA Academy. Therefore, we have created a rigorous program that strives to instill in our students the values of integrity, service before self, and excellence in all that they do. Thus, allowing them to become ambassadors to their community and the Emergency Services field. Students can graduate with either their NYS Registered Security Guard License or Emergency Medical Technician 1 certification. Furthermore, students may earn AHA CPR/AED, First Aid, and 100 hours of First Responder training via online training platforms such as PoliceOne Academy, FEMA, TEEEX, National Institute of Justice, and NYS Department of Health.

Industry Credentials Available: NYS DCJS 8 Hour Pre-Assignment Training for Security Guard, National Safety Council Advanced First Aid & Basic Life Support for Health Care & Professional Rescuers, Stop the Bleed, NYS Mandated Reporter, Multiple Certifications through PoliceOne Academy, FEMA, TEEEX, National Institute of Justice & NYS Department of Health.

Locations Offered: FLTCC & WTCC



HEAVY EQUIPMENT REPAIR & OPERATION (HERO)

In the Heavy Equipment Operation & Repair 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 Operation and Repair offers OSHA 10 and forklift certification. Additionally, students can prepare for a NYS Commercial Driver's license (CDL Class A & B).

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



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.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



W-FL BOCES CTE PROGRAM GUIDE



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.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



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.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



NEW VISION MEDICAL CAREERS

The New Vision Medical 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.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



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.

Industry Credentials Available:

Locations Offered: FLTCC & WTCC



W-FL BOCES CTE PROGRAM GUIDE



PROFESSIONS IN EDUCATION & 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.

Industry Credentials Available:

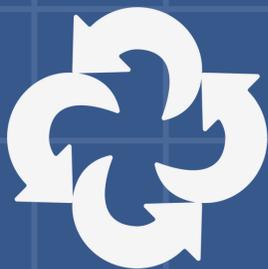
Locations Offered: FLTCC & WTCC

INTERESTED IN LEARNING MORE?

Visit us online at www.wflboces.org, or reach out to Shannon Brown, Director of Career & Technical Education & Workforce Development, at: shannon.brown@wflboces.org or (315) 879-8749.



BELONGING
at **BOCES**



WAYNE - FINGER LAKES
Board of Cooperative Educational Services

**DIGITAL PUBLICATION CAN BE FOUND AT
WWW.WFLBOCES.ORG**