

Career Opportunities



WILLIAM D. FORD CAREER-TECHNICAL CENTER

CAREER • TECH

wwcsd.net/ford

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Letter from the Principal



As you look ahead to beyond high school, it's time to make some big decisions about your future career path. Regardless of the road you choose to follow, William D. Ford Career-Technical Center can help get you started on the journey to your dream.

At William D. Ford Career-Technical Center, learning is purpose driven and focused on supporting you in the early stages of career preparation. Our courses provide technical training and work based learning opportunities that will set you up for excellence in the real world – whether your next step be college, apprenticeship, military, or direct to the workforce.

Learning here is amazing. You will have the opportunity to connect and begin to build your professional network. All of our teachers are industry experts. You'll be surrounded by students that have similar interests and goals. All classes provide several opportunities to meet, converse with, and shadow workplace professionals.

We offer high school and college credit, industry certifications and credentials, paid internships, scholarships, and more. You can use your career-tech experience to earn an above average wage upon high school graduation.

Our block schedule makes it easy to fit FordCTC into your schedule. And, because we partner with your high school, all of our programs are offered at no cost to families.

Take advantage of our exciting courses and get ready to elevate your education. I look forward to seeing you on campus.

With students in mind,

JaCinda Sumara
Principal, William D. Ford Career-Technical Center



1000+
STUDENTS



16
HIGH SCHOOLS



98%
GRADUATION RATE



20+
PROGRAMS



About William D. Ford Career-Technical Center



William D. Ford Career-Technical Center provides career technical education to high school students living in western Wayne County. Our students spend part of their day studying at their home high school and part of their day engaged in their selected career program.

William D. Ford Career-Technical Center prepares students for careers, not just jobs. Our courses are taught by industry experts. Our classrooms provide opportunities to learn on the same technologies used in industry. Our talent pipeline partnerships provide opportunities for students to complete internships, clinicals, and job shadows.

William D. Ford Career-Technical Center provides career exploration and hands-on learning experiences. We provide students with opportunities to demonstrate their developing skills in student leadership organizations and industry competitions. We provide students with opportunities to document their knowledge and abilities by earning industry credentials, college credits, and building professional portfolios.

William D. Ford Career-Technical Center prepares students for their futures.

Recent Points of Pride:

- More than 600 industry credentials earned by students annually
- More than \$50,000 in scholarships awarded annually
- National qualifiers in the SkillsUSA competition
- National award winners in the Scholastic Art and Writing competition





Architectural and Engineering Design



What Students Will Learn

Students will use Computer Aided Drafting and Design (CADD) software to plan, prepare, and interpret architectural and mechanical sketches. Students will apply learned skills and knowledge to construct drawings that support manufacturing, construction, robotics, and 3D printing. Advanced students will develop a portfolio to support attainment of employment as a designer.

Licenses/Certifications

- OSHA 10
- Precision Exam - CADD Mechanical Design I
- Precision Exam - CADD Mechanical Design II
- Precision Exam - CAD Architectural Design I
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- MITES
- National Technical Honor Society
- SkillsUSA

Auto Body



What Students Will Learn

Students will repair, restore, and refinish vehicles to original condition using the grinders, polishers, air sanders, sheet metal pullers, and advanced painting equipment used by industry professionals. Advanced students will learn the principles of frame and unibody straightening and have opportunities to create custom modifications.

Licenses/Certifications

- ASE Certification Paint and Refinishing
- ASE Certification Non-Structural Analysis & Damage Repair
- OSHA 10
- OSHA 30
- S/P2 Safety Training
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA

Automotive Technology



What Students Will Learn

Students will have the opportunity to learn through hands-on, high quality instruction working alongside Automotive Service Excellence (ASE) technicians. This full-service, interactive automotive lab prepares students in shop practices, customer service, tool use, safety, diagnostic testing, and repair strategies. Theory and practice are combined to support students in performing basic service in engine repair, engine performance, electrical systems, suspension and steering, brake systems, and heating and air-conditioning.

Licenses/Certifications

- ASE Brakes
- ASE Electrical
- ASE Maintenance Light Repair
- Michigan Mechanic License
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA

Construction Technology



What Students Will Learn

Students will gain skills to work in all areas of the construction field, including carpentry, interior/exterior finishing, electrical, plumbing, masonry, home repair, and building and grounds maintenance. Additionally, they will learn to read and follow blueprints and estimate materials and labor costs. Students will collaborate with the City of Westland to build a residential home in our community.

Licenses/Certifications

- Michigan 60 Hour Builders License
- OSHA 10
- OSHA 30
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA



Culinary Arts



What Students Will Learn

Students cook alongside professional chefs to create gourmet cuisine and decadent menus. Direct instruction is provided in food preparation and cooking, menu design, staffing and scheduling, and financial management. Students also explore the fundamentals of the hospitality and tourism industries and use industry tools, equipment, and technology to lead the operation of a restaurant and catering enterprise.

Licenses/Certifications

- ServeSafe Allergens
- ServSafe Food Handler
- ServSafe Manager
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA

Cybersecurity and Ethical Hacking



What Students Will Learn

Students are introduced to basic computer and technology security principles involving networks and operating systems. Learning will be focused on identifying system threats and eliminating these weaknesses. Students will gain an understanding of the principles of risk management, security architecture, and disaster recovery by practicing cyber-security response measures within simulated hacking environments.

Licenses/Certifications

- CompTIA A+
- CompTIA Network+
- CompTIA Security+
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA

Digital Art and Design



What Students Will Learn

Students will prepare for careers that communicate ideas and information. Students will learn graphic communication and graphic design and use industry specific tools and the Adobe Creative Suite to create brand identifications and digital products. Advanced students will participate in local and national contests in order to create a portfolio to showcase their work for use in securing employment and/or applying for college.

Licenses/Certifications

- Precision Exam - Digital Media
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- Digital Arts Film & Television Annual Poster Contest
- SAE Detroit Annual Poster Contest
- 3rd Judicial Circuit Court of Michigan Annual Report Cover Contest

Digital Photography and Media



What Students Will Learn

Students gain practical knowledge of digital photography to support preparing for careers in the multiple pathways that communicate ideas and information to the public. Students will be introduced to a variety of digital media used in fine art and commercial photography, social media marketing, and website implementation. Portfolios will be compiled to support students in the transition to career and college.

Licenses/Certifications

- Precision Exam - Commercial Photography I
- Precision Exam - Commercial Photography II
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA
- Detroit Institute of Arts Wayne County High School Art Exhibition
- Museum of Contemporary Art Detroit Teen Art Exhibition
- Scholastic Art & Writing Awards



Emergency Medical Technician (EMT)



What Students Will Learn

Students will explore careers in emergency medicine and prepare to become an emergency medical service provider. They will learn to think fast and to adapt to ever-changing environments. Students will explore and practice the basics of pre-hospital care, including oxygen management, bleeding control, and c-spine immobilization, preparing them to complete a minimum of 24 clinical hours in an ambulance and 12 clinical hours in an emergency room.

Licenses/Certifications

- American Heart Association Basic Life Support
- Hazmat Materials Awareness
- National Registry Emergency Medical Technician B
- Law and Public Safety Education Network 9-1-1 Emergency Dispatcher

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA

Film and TV Media



What Students Will Learn

Students will investigate careers in mass media, with an emphasis on film production and broadcast journalism. Students will gain experience in pre-production, production, and post-production, using professional audio and video equipment to create both live action films and interactive multimedia animations. Students will gain additional skills in script writing, creative direction, storyboarding, location scouting, and acting. Advanced students will work on client projects and begin to build a professional portfolio.

Licenses/Certifications

- Precision Exam - Video Production I
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- National Art Honor Society
- SkillsUSA

Firefighting



Licenses/Certifications

- American Heart Association Basic Life Support
- Hazmat Materials Operations Level
- State of Michigan Firefighter I
- State of Michigan Firefighter II

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA

What Students Will Learn

Students will learn the basics of safety, fire prevention and public education, fire control, and rescue and extrication. Students will use industry specific equipment, such as fire trucks, hoses, protective clothing, fire service hand tools, and The Jaws of Life to put theory into practice as they learn the skills necessary to begin a career with a fire department. Students are exposed to a Chain of Command style of instruction where they are taught to follow orders, work as a team, and practice routine skills on a daily basis.

Students take biweekly field trips to Wayne County Community College District's Michigan Institute for Public Safety Education to complete practicum hours required for certification. This state-of-the-art, 10-acre, \$6 million facility houses a 5-story fire tower, a 12,000 square-foot training center, a 50,000 square-foot driving training area, and a man-made lake for water rescue simulations.

Future Educators



Licenses/Certifications

- CDA - Child Development Associate
- MI-YDA - Youth Development Associate
- ETS Paraprofessional
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- FCCLA
- National Technical Honor Society
- SkillsUSA

What Students Will Learn

Students get a start in teaching by exploring the growth and development of children, lesson design and development, behavior management, exceptional learners, and diversity. This lab style classroom, which supports Sunshine and Rainbows Preschool, provides students with hands-on teaching experiences that develop their leadership, communication, collaboration, creativity, and critical thinking skills. Practicum hours support students in transferring their skills to traditional K-8 classrooms, early childhood centers, and community based education programs.



Game Design and Programming



What Students Will Learn

Students explore information technology topics in web development, application development, and computer programming. Students learn to write code to power game design and robots. Students use advanced programming languages such as python to complete projects using Visual Studio Code and Godot. Students compile projects into a professional portfolio to showcase their ability.

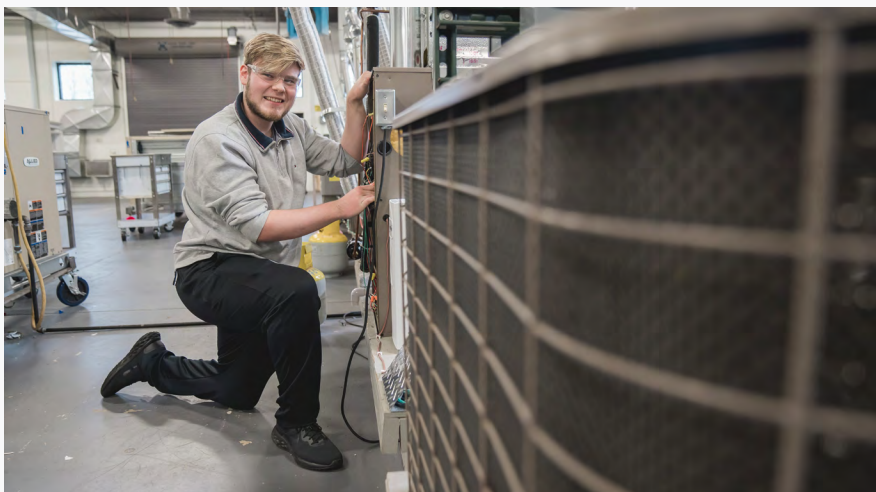
Licenses/Certifications

- Precision Exam - Computer Programming I
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- eSports
- National Technical Honor Society
- SkillsUSA

Heating, Air Conditioning, and Refrigeration (HVAC/R)



What Students Will Learn

Students will learn to diagnose, maintain, install, and repair residential and commercial heating and air conditioning systems. Students will learn safety, basic electricity, electronics, refrigeration, and ventilation. Students will use industry tools to design, wire, and fabricate sheet metal ductwork

Licenses/Certifications

- EPA 608
- H.E.A.T.
- OSHA 10
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- SkillsUSA

Medical Assisting



What Students Will Learn

Students will gain clinical and administrative skills necessary for employment in an outpatient medical facility. Students will learn anatomy and physiology and medical terminology. Students will practice clinical skills including vital signs, height and weight, injections, medication administration, vision screening, and basic laboratory procedures. Students will perform basic administrative tasks including patient accounting, insurance billing and coding, appointment scheduling, and medical office management. Clinical practicum hours will provide students the opportunity to provide quality care alongside experts in healthcare.

Licenses/Certifications

- CCMA - Certified Clinical Medical Assistant
- American Heart Association Basic Life Support
- American Heart Association First Aid
- OSHA Bloodborne Pathogens
- American College of Surgeons Stop the Bleed

Student Organizations/Competitions

- HOSA Future Health Professionals
- National Technical Honor Society

Health Occupations



What Students Will Learn

Students learn basic anatomy and physiology, adult patient care, first aid, CPR, medical terminology, medical math, and the theory of nursing care. Clinical practicum hours provide students the opportunity to provide quality care alongside experts in the field and develop professional relationships with nursing home residents. Types of skills include feeding, bathing, toileting, and assistance with daily living activities.

Licenses/Certifications

- CNA - Certified Nurse Assistant
- PCT - Patient Care Technician
- American Heart Association Basic Life Support
- American Heart Association First Aid

Student Organizations/Competitions

- National Technical Honor Society
- HOSA Future Health Professionals



Law and Public Safety



Licenses/Certifications

- National Basic 9-1-1 Dispatch
- National Law Enforcement Certification
- International Foundation for Protection Officers Certified Protection Officer

Student Organizations/Competitions

- SkillsUSA
- National Technical Honor Society

What Students Will Learn

Students will learn the basics of The Michigan Compiled Law, legal services, law enforcement, dispatch, and emergency management. Students will perform the duties of police and public security officers in simulated learning sessions. Students will use industry specific equipment, such as police cars, protective clothing, communication devices, and public safety hand tools to put theory into practice as they learn the skills necessary to begin a career with a public safety department. Simulations will include patrol, investigation, traffic and crowd control, public relations, witness interviewing, evidence collection and management, and court procedures. Advanced students will explore crime prevention, risk assessments, and dignitary protection. Students are exposed to a Chain of Command style of instruction where they are taught to follow orders, work as a team, and practice routine skills on a daily basis.

Robotics and Engineering



Licenses/Certifications

- OSHA 10
- Snap On Precision Measuring Instruments
- American Heart Association Heartsaver First Aid, CPR, AED
- Smart Automation Certification Alliance - Associate Level

Student Organizations/Competitions

- National Technical Honor Society
- FIRST Robotics

What Students Will Learn

Students will use high-tech engineering technologies to invent, design, and build solutions that meet the needs of a technologically advancing world. Students will learn core foundational skills for design processes, power, machines, quality, and fabrication. Students will program and operate industrial robots and machines to create products from engineering blueprints and specifications.

Sports Medicine and Exercise Science



What Students Will Learn

Students will explore the science of human health by designing a systematic approach learning body structures, their functions and the concept of therapeutic intervention of athletic injuries and increasing human performance in sports. Students will also learn various aspects of fitness training including resistance training, body composition and nutrition, flexibility, agility, and more. Students will be able to design, implement, modify, track and update fitness training programs based on individual needs.

Licenses/Certifications

- American Medical Certification Association Physical Therapy Aide
- Athletics and Fitness Association of America Personal Trainer
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- National Technical Honor Society
- HOSA Future Health Professionals

Welding



What Students Will Learn

Students will learn to use electricity and fire to design, join, dismantle, and fabricate a wide range of materials using multiple different welding processes. Students will use advanced equipment and techniques to join, cut, bend, and manipulate metals including Carbon Steel, Stainless Steel, and Aluminum. Students will also be exposed to common industrial safety practices and learn to take measurements, read blueprints, and fit together weldments to support their application of Gas Metal, Shielded Metal, Flux Core, and Gas Tungsten Arc Welding processes.

Licenses/Certifications

- AWS Sense Level I - Entry Level Welder
- OSHA 10
- American Heart Association Heartsaver First Aid, CPR, AED

Student Organizations/Competitions

- American Welding Society (AWS) Invitational
- National Technical Honor Society
- Washtenaw Community College Welding Invitational



Wayne-Westland Early College



What Students Will Learn

Wayne-Westland Early College is a rigorous program that offers high school students an opportunity to earn college credit hours, industry certification, and an associate degree while still in high school.

Wayne-Westland Community Schools District has partnered with several local colleges and universities to combine the high-school and college experience. Upon completion of this five year program, students will graduate with their high school diploma and up to 60 credit hours, potentially earning their associate degree.

Work-Based Learning



Paid and Unpaid Opportunities

Responsible students have the opportunity to work in a paid or intern in an unpaid position. The job must be related to the student's specific career path. An employer provides a part-time experience for a specified amount of time. The student performs assigned work duties and functions as a member of the employer's staff. The student, instructor, coordinator, and employer will work together to develop a schedule that allows for flexibility in seat time and required classroom activities. The Work Based Learning Coordinator will formalize the plan in a training agreement that requires parental approval.

Job Shadowing

Students complete a one or two day experience to explore a potential career choice with a professional or an organization. Job Shadow experiences must be approved by the instructor. If necessary, the Work Based Learning Coordinator will support students in preparing for the experience.

Student Organizations



eSports PlayVS

Provides leadership and teamwork opportunities. Supports students in developing strategy and problem solving abilities. PlayVS provides organized multiplayer video game events that allow students to complete game specific tasks against a field of competitors.

Family, Career and Community Leaders of America

Makes a difference in families, careers, and communities by addressing important personal, work, and societal issues. Through participation in competitive events, students become involved in community service opportunities and student leadership.

FIRST Robotics

Combines the excitement of sports with the rigors of science and technology. Teams of students design a brand, hone teamwork skills, and build and program robots to perform prescribed tasks against a field of competitors.

HOSA Future Health Professionals

Develops leadership and technical skill competencies through a program of motivation, awareness, and recognition. Enhances the delivery of compassionate, quality healthcare by providing opportunities for knowledge, skill, and leadership development.

Michigan Industrial and Technology Education Society (MITES)

Demonstrates that industry and technology are alive and well in Michigan. MITES works to bridge industry's need for qualified, skilled workers to hard-working, career-minded students.

National Technical Honor Society

The highest award and a society of excellence focused on technical education and career development. Students are nominated by their CTE instructors based on achievement, attendance, and leadership skills. Cumulative GPA of 3.0 is needed for acceptance.

SkillsUSA

A partnership of students, teachers, and industry working together to ensure a future skilled workforce. Helps students excel by providing educational programs, events, and competitions.



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