



Software Design & Development

Learn skills in software design and programming (C#), web development (HTML/CSS), game development (Unity), virtual reality (Unity/Oculus), and cybersecurity

- Earn professional Certiport certifications in Software Development, Computational Thinking, Artificial Intelligence, HTML and CSS, Unity and more
- Related careers: software developer, security analyst, video game developer, data forensics analyst, web developer



Health Science Academy

Designed for returning Allied Health students

- Learn college-level medical terminology, practice clinical skills in on-site patient care lab. Opportunities for work based learning at local health care facilities may be available
- Earn BLS/First Aid certification. Pharmacy Technician, Certified Nurse Assistant, Patient Care Technician, and EKG Technician credentials available as well as English, fourth-year math, and college credit
- Related careers: athletic trainer, medical assistant, nurse, pharmacist, physician assistant, surgical technologist



Welding Technology

- Develop skills in gas metal arc (MIG), gas tungsten arc (TIG), stick electrode, and flux-core welding as well as plasma/thermal cutting processes
- Fourth-year math, Algebra II, and college credit available
- Related careers: pipefitters, sheet metal workers, iron workers, millwrights, and underwater welding



Bio Tech & Engineering

Designed for returning Career Tech Center students

- Engage in project-based learning combining science, engineering, and technology. Analyze, explain, and create solutions for real-world problems proposed by community and business partners
- English, fourth-year math, and college credit available
- Related careers: computer programmer, engineer, physical therapist, occupational therapist, and biotechnical careers



TAKE A TOUR!

Scan the QR code with your phone, or visit tourthectc.org for our 360-degree, virtual tour!



CAREER TECH CENTER

2024-25 COURSE GUIDE



EMPOWERING STUDENTS FOR THE FUTURE

FUTURE. FOCUSED. make CTC part of your high school plan!



DID YOU KNOW?

CTC classes are FREE to juniors and seniors!

Think of the CTC as an extension of your local high school.

All CTC classes offer FREE college credit.

Learn more by clicking on the College & Career tab at muskegonctc.org.

Transportation is provided. Most districts provide transportation to the main campus and Construction Trades site. Speak to your school counselor for your district's policy.

The District is committed to equal employment opportunity and compliance with federal, state, and local laws that prohibit workplace discrimination, unlawful harassment, and unlawful retaliation based on any protected class or activity. This Policy applies to all aspects of employment, including recruiting, advertising, hiring, training, job placement, evaluation, classification, promotion, transfer, work assignment, compensation, benefits, discipline, demotion, termination, reduction in force, recall, and any other term or condition of employment. This Policy prohibits discrimination against employees or applicants for employment based on the following protected classes: race, color, national origin, ethnicity, religion, sex (including pregnancy, gender identity, and sexual orientation), height, weight, marital status, age, disability, genetic information, veteran status, military service, or any other legally protected class.

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Allied Health

- Explore healthcare careers, learn basic anatomy and physiology, and practice patient care skills
- Earn CPR, AED, and First Aid certifications. English and college credit available
- Related careers: athletic trainer, biomedical science, medical assistant, physical therapist, occupational therapist, nurse, pharmacist, physician assistant, radiologic or surgical tech, and ultrasonographer



Auto Collision/Refinishing

- Repair damaged vehicles by learning dent repair, welding techniques, panel replacement, surface preparation, estimating, and painting
- Earn Automobile Service Excellence (ASE) credential, and I-CAR, and OSHA Safety certifications. Fourth-year math and college credit available
- Related careers: automotive painter, detailer, estimator, and manager



Auto Service Technology

- Perform alignments, engine rebuilds, brake and driveline services, engine electrical system repairs, air conditioning servicing, and general automotive maintenance
- Earn Automobile Service Excellence (ASE) Entry Level credential. English, fourth-year math, and college credit also available
- Related careers: automotive service technician, automotive service writer, and automotive service manager



Computer-Aided Design (CAD)*

- Create standard drawings for engineering and architecture, communicate ideas for products and designs, use professional design software to create 2D/3D drawings, practice 3D printing
- Fourth-year math and college credit available
- Related careers: mechanical, automotive and aerospace engineering, industrial design, architecture, interior design, CAD/CAM, and construction management

*Part of the Early College: Advanced Technology Institute program



Construction Trades

- Learn carpentry, masonry, roofing, drywall, and other skills to safely build an entire house from start to finish
- Earn OSHA 10-Hour Safety certification, 60-Hour Prelicensure Builder training, and pre-apprenticeship carpentry skills. Fourth-year math and college credit available
- Related careers: carpenter, plumber/pipefitter, HVAC, electrician, mason, estimator, construction management, sales and design manager



Cosmetology* (Nuvo College of Cosmetology)
Designed for high school seniors

- Learn services offered in a typical salon including hair cutting, coloring and styling, manicures, pedicures, makeup, facials, and chemical services
- Receive training hours toward the State of Michigan license exam. College credit available
- Related careers: cosmetologist, nail technician, esthetician, and sales consultant



Criminal Justice

- Learn the basics of criminal justice and law enforcement, assist first responders in critical incident training, practice self-defense, learn to process a crime scene, and participate in a mock court trial
- Earn CPR, Certified Emergency Response Team (CERT), and Incident Command System (ICS) certifications. English and college credit available
- Related careers: law enforcement, courts, corrections, fire, and homeland security



Electrical/Computer Technologies

- Learn to install electrical, communications and data cabling, explore alternative energy and robotic programming, use multimeters, wave generators, and oscilloscopes, operate a student repair store
- Earn CompTIA A+, Electrical Interim Credential, and OSHA certifications. Fourth-year math and college credit available
- Related careers: electrician, engineer, home security installer, computer/electronics, telecommunications and robotics technician



Environmental/Veterinary Sciences

- Engage in activities related to animal anatomy and physiology, animal nutrition and care, greenhouse production, floriculture, and natural resources management
- Industry-recognized certifications as well as English and college credit are available
- Related careers: community and urban farming, greenhouse management, natural resources management, and veterinary medicine



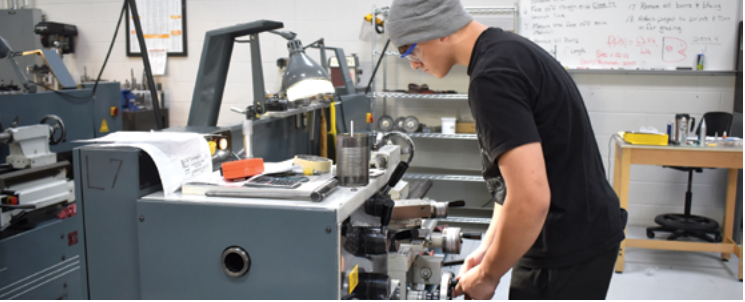
Graphic Production

- Apply color theory, the elements and principals of design, typography, and other design basics to create original artwork using professional software and production equipment
- American Screen Printing certification available as well as English, fourth-year math, and college credit
- Related careers: graphic design, illustration, printing, photo editing, and marketing



Hospitality & Food Management

- Prepare and serve delicious foods, be part of Muskegon County's locally-grown food movement, and experience a day in the life of a manager in some of the area's most popular attractions
- Earn ServSafe®, ProStart, American Culinary Federation, and School Nutrition Association certifications. English, fourth-year math, and college credit available
- Related careers: executive chef; restaurant, food and beverage, or hotel manager; event and conference organizer, and travel agent



Machining/Engineering Technology*

- Operate machining tools such as lathes, milling machines, grinders, drill presses, saws, and computer numeric controlled (CNC) machines to produce metal parts with precise specifications
- Fourth-year math, Algebra II, and college credit available
- Related careers: machinist, tool and die maker, industrial, mechanical, or manufacturing engineer, and CNC operator or programmer

*Part of the Early College: Advanced Technology Institute program