



WILLIAM D. FORD

CAREER • TECH

Your Career Is Here...



ACADEMIC COURSES OFFERED

- Earn Math Credits
 - 4th year math in all classes.
 - Algebra II class offered at Career Tech.
 - Algebra II embedded in 3 classes:
 - **Construction Technology**
 - **Electronics and Robotics**
 - **Welding**
- Earn Visual Performing & Applied Arts-VPAA credit in all classes.
- Possibly earn 3rd year Science credit in all classes
- Possibly earn 2nd year World Language credit in all classes

CTE COURSES OFFERED



AUTO BODY



AUTOMOTIVE TECHNOLOGY



ARCHITECTURE & ENGINEERING DESIGN



CONSTRUCTION TECHNOLOGY



CULINARY ARTS



DIGITAL ART & DESIGN



DIGITAL MEDIA TECHNOLOGY



ELECTRONICS & ROBOTICS



EMERGENCY MEDICAL TECHNICIAN (EMT)



FIREFIGHTING



GAME DESIGN & PROGRAMMING



GRAPHICS & PRINT PRODUCTION



HEALTH OCCUPATIONS



HEATING, AIR CONDITIONING & REFRIGERATION (HVAC)



MEDIA PRODUCTION



MEDICAL ASSISTING



SPORTS CONDITIONING & EXERCISE SCIENCE



TEACHER CADET



WELDING TECHNOLOGY



*** NEW COURSE 2021-2022
JROTC**

EDUCATION • HEALTH SCIENCES • HOSPITALITY • SKILLED TRADES • TECHNOLOGY • VISUAL ARTS



WILLIAM D. FORD

CAREER • TECH





AUTO BODY

- Metal finishing
- Welding
- Body panel alignment
- Spray painting
- Air brushing
- Ability to earn ASE and state credentials





AUTOMOTIVE TECHNOLOGY

- Shop practices
- Tool use
- Shop safety
- Diagnostic test equipment
- Diagnosis and repair of auto powertrain, fuel, electrical, cooling and brake systems
- Ability to earn ASE and state credentials

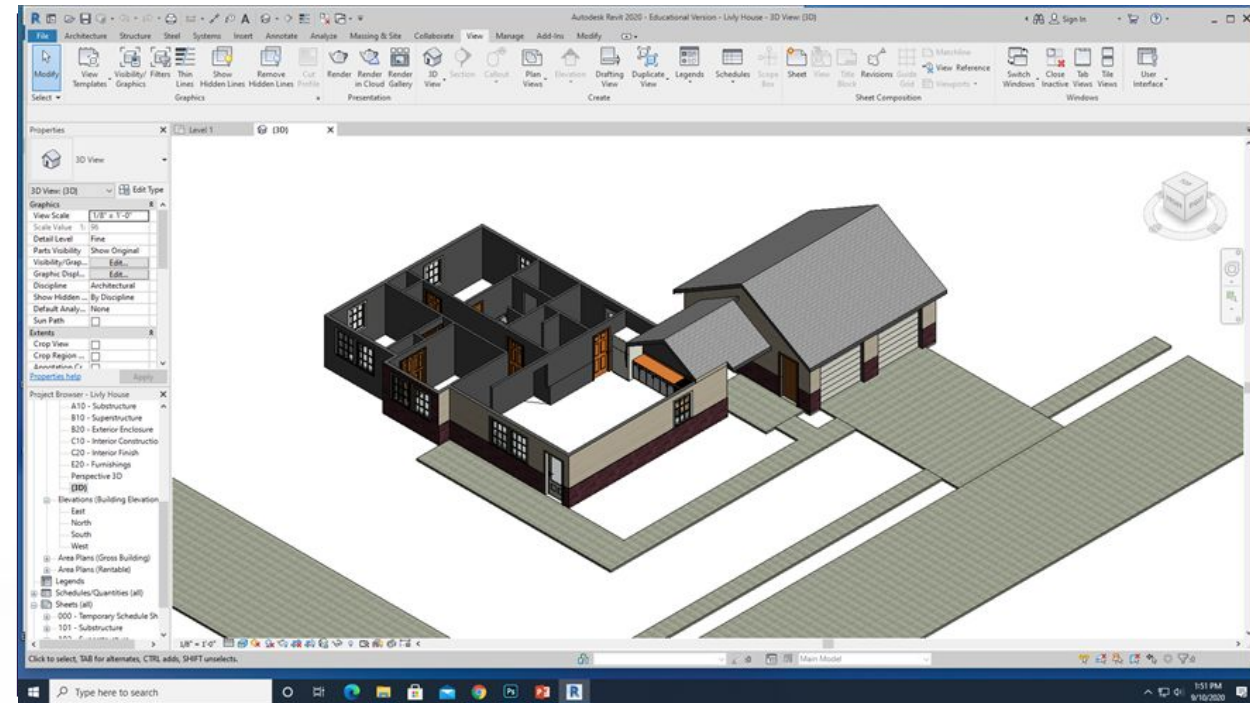




ARCHITECTURE & ENGINEERING DESIGN

Mechanical Drafting and Design

- Additive Manufacturing
- (3D Printing)
- Assembly Drawings
- Blueprint Reading
- Dimensioning
- Drafting Fundamentals
- Engineering Drawings
- Exploded-View Drawings
- Product Rendering
- Parametric Modeling





ARCHITECTURE & ENGINEERING DESIGN

Architectural Drafting and Design

- Architectural Presentations
- Blueprint Reading
- Floor Plan Layout
- Elevation Layout
- Open-Framing Model Building
- Parametric Modeling
- Site Planning





CONSTRUCTION TECHNOLOGY

- Painting
- Carpentry
- Plumbing
- Masonry
- Roofing
- Drywall
- Cement finishing
- Insulating
- Electrical wiring

****Second year students build an entire house.**





CULINARY ARTS

- Functions of commercial kitchens
- Restaurant management
- Short-order cooking
- Dining room service
- Hot food skills
- Pastry skills





DIGITAL ART & DESIGN

- **Graphic Design**
- **Digital Illustration**
- **Vinyl Sign Making**
- **Clothing Graphics**
- **Web Design**
- **Motion Graphics**
- **Printing**
- **Typography**
- **Color Theory**
- **Adobe Software (Mac)**





DIGITAL MEDIA TECHNOLOGY

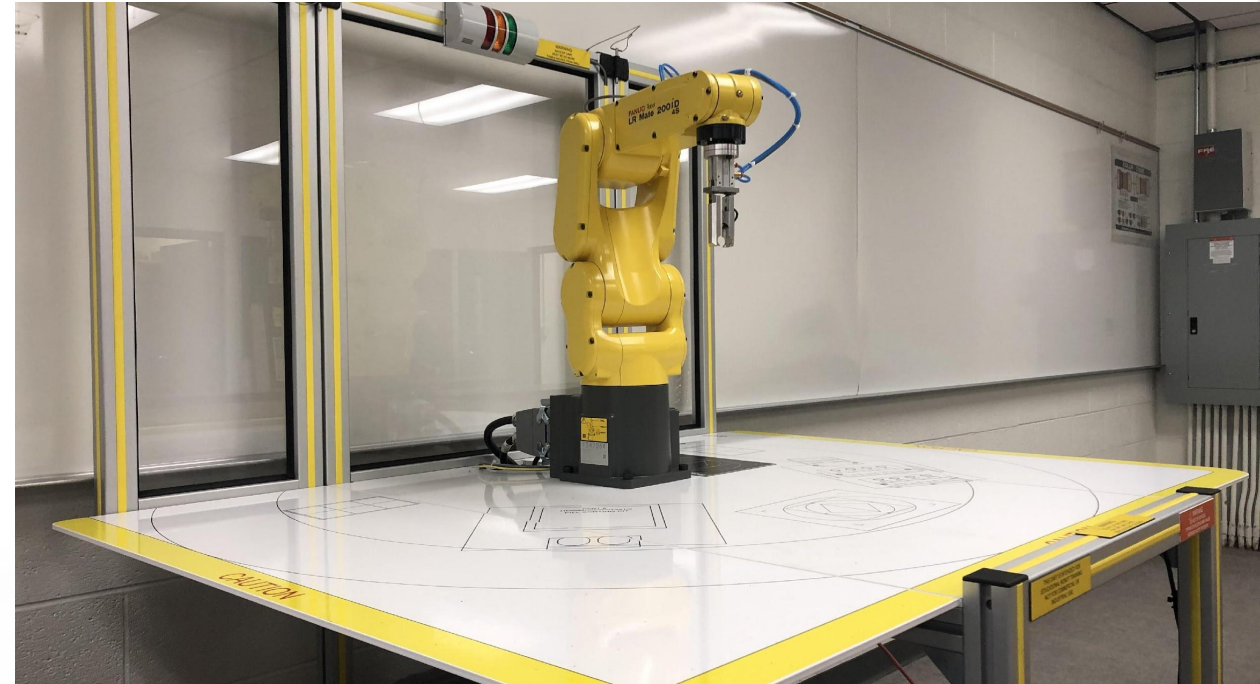
- PROJECT MANAGEMENT
- PROGRAMMING
- DEBUGGING
- SOFTWARE MODIFICATIONS
- EVALUATION
- INCORPORATING FEEDBACK





ELECTRONICS & ROBOTICS

- AC/DC circuit design and construction
- Breadboarding and Soldering
- RCL networks
- Solid State Electronics
- Programmable Logic Controllers and Relay Logic
- Systems Integration
- FANUC robot automation
- Arduino Microcontroller interfacing & programming
- Electro-pneumatic / Mechatronic systems
- Troubleshooting / problem-solving





EMERGENCY MEDICAL TECHNICIAN (EMT)

- **Students must be 18 years old within one year of course completion to take the National Registry EMT B-Exam**
- **Students must pass the class with 80% or higher**
- **Students will be required to complete a minimum of 36 clinical experience hours (24 with an EMS provider in an ambulance and 16 in an emergency room at a local hospital).**





FIREFIGHTING

- **Full exposure to all aspects of the Fire Cadet program.**
- **Ability to sit for the Firefighting I and II exam**
- **Classroom study, hand-on activities and real-life work-based learning in the firefighting industry.**
- **CPR-First Aid-certification**
- **Team building and individual self-discipline.**

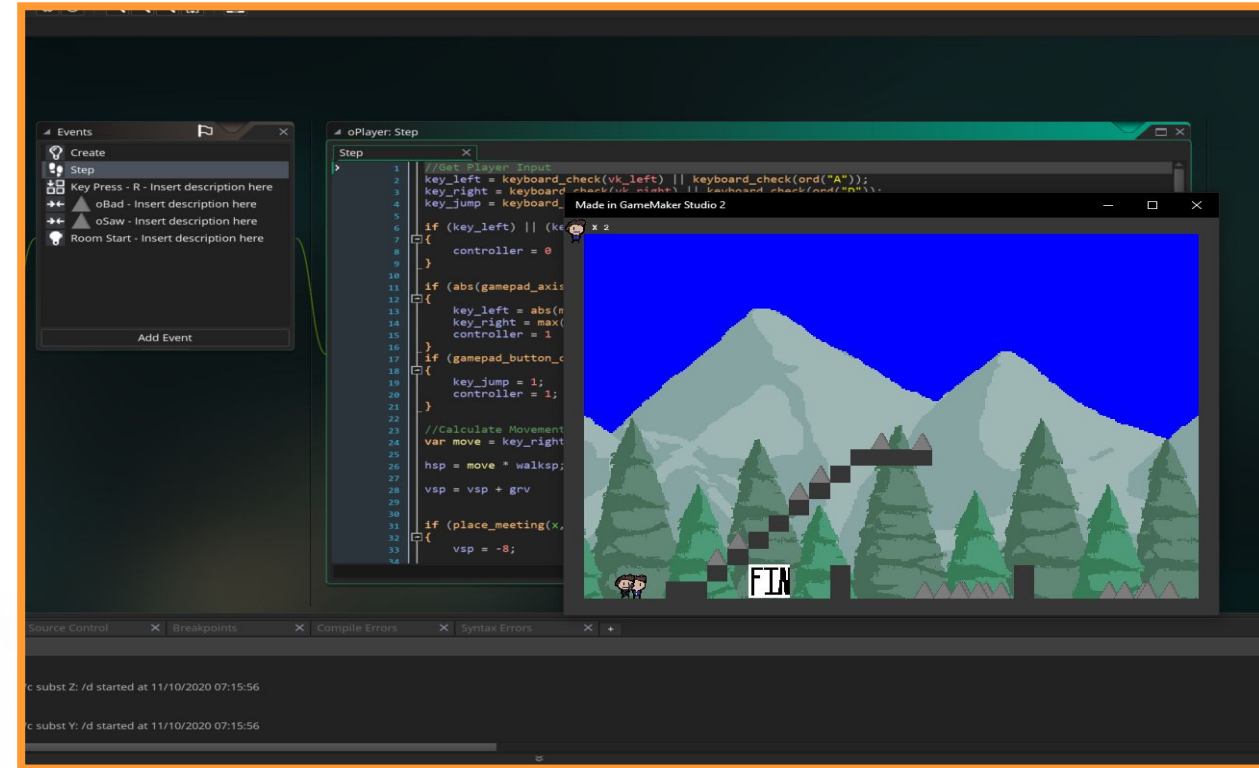




GAME DESIGN & PROGRAMMING

While making games, learn programming:

- Variables
- Loops
- If-then statements
- Java Script and Game Maker
- Python and Arduino
- Xbox Creators Program Publishing
- Sprites and Animation





GRAPHICS & PRINT PRODUCTION

- Adobe Creative Suite
- Vinyl & Silkscreen T-shirt Printing
- Design & Layout Concepts
- Digital Printing Presses
- Wide format posters
- Bindery techniques: cut/fold/collate etc.
- PAPER!
- Logos, Branding & More!





HEALTH OCCUPATIONS

- **Basic anatomy**
- **Basic physiology**
- **Patient care**
- **First aid**
- **CPR**
- **Medical ethics**
- **Medical terminology**
- **Clinicals**





HEATING, AIR CONDITIONING & REFRIGERATION (HVAC)

- Diagnosing heating and cooling units
- Maintain heating and cooling units
- Repair heating and cooling units
- Sheet metal fabrication/installation
- Basic wiring
- Facilities Maintenance
- Engineering





MEDIA PRODUCTION

- **Digital Photography**
 - Commercial
 - Portrait
 - Advertising
 - Documentary
 - Editorial/Fashion
- **Technical Skills**
 - Adobe Photoshop and Lightroom Editing
 - Camera Techniques
 - Digital Printing Techniques
- **Studio Lighting**
- **Portfolio Website**





MEDICAL ASSISTING

- Medical office administration
- Patient care procedures
- Front office business skills
- Back office clinical skills
- Certification in CPR and First Aid
- Clinical rotation





SPORTS CONDITIONING & EXERCISE SCIENCE

- Human Anatomy and Physiology
- Human Movement and Kinesiology
- Nutrition and Weight Management
- Bioenergetics
- CPR and First Aid
- Exercise Prescription and Exercise Management





TEACHER CADET

- Act as a teaching assistant at our State Licensed, Sunshine and Rainbows Preschool.
- Prepare students for employment in the field of Education
- Study growth and development
- Plan developmentally appropriate activities - including field trips and guest speakers
- Become an active leader and a member of a successful team.
- Participate in career exploration and employment opportunities
- Participate in job shadowing experiences to provide students with insights about working in the “Real World”.





WELDING TECHNOLOGY

- **Shielded Metal Arc Welding**
- **Oxyacetylene Welding**
- **Gas Metal ARC Welding**
- **Gas Tungsten ARC Welding**
- **Fabrication and Brazing**
- **Blueprint Reading**
- **AWS Credentialing**





JROTC

New class for 2021-2022

- The JROTC Program prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities and privileges as American citizens.
- This program is a cooperative effort on the part of the Army and Wayne-Westland Schools to provide our students opportunities for total development.
- Enhance mental management abilities including goal setting, visualization and positive self talk.
- Familiarity with the history, purpose and structure of the military services.
- Explore educational and vocational opportunities
- Appreciation of the importance of physical fitness in maintaining good health.
- Scholarships opportunities



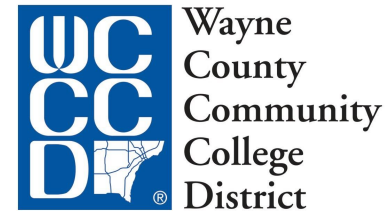
STUDENT ORGANIZATIONS

- National Technical Honor Society
- SkillsUSA
- HOSA-Health Occupation Students of America
- IVD-Innovative Vehicle Design
- I-Save
- PBIS-Positive Behavior Interventions Support
- National Scholastics
- MITES
- Other opportunities

ADVANTAGES OF CAREER TECH

- Professional competitions/student leadership opportunities
- Business partnerships and employment opportunities
- Variety of work-based learning experiences (from awareness, exploration, preparation and training)
- Apprenticeships and on-the-job training options
- Career Resource Lab, Teacher Consultants, Tutoring
- Applicable, more relevant preparation for SAT Math and English
- Articulation Agreements: Earn college credits for completing a program
- Scholarships opportunities
- Career research, Xello (Career Cruising)

ARTICULATION AGREEMENTS





WILLIAM D. FORD
CAREER • TECH

William D. Ford
36455 Marquette
Westland, Michigan 48185
Phone: (734) 419-2100
Fax: (734) 595-2127

Dr. Jennifer LaDuke, Principal
Daniel Calhoun, Assistant Principal

