



# METAMORA TOWNSHIP HIGH SCHOOL CAREER & TECHNICAL EDUCATION

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Hello!

At Metamora Township High School (MTHS), we are especially excited to be able to provide students with many opportunities to explore interests and develop abilities through a broad selection of courses in the Career & Technical Education Department (CTE). Whether a student is preparing for post-secondary education or preparing to enter the workforce, the opportunities afforded through experiences in the CTE Department are outstanding and integral towards meeting future goals. The hands-on project/problem-based approach that these classes model are not only fun for students, but have also been proven to naturally take students to the highest levels of thinking and reasoning. It's not every day that students are given opportunities such as: overhauling a car engine, drafting a house design, building a kitchen cabinet, taking digital photography for major publications, taking welding for college credit, incubating eggs, or building a clap-on/clap-off electrical circuit. We're excited that this list of opportunities within our CTE classes at MTHS is only the start. Even beyond the value that is gained through potential career field exploration, students also gain relevancy and better understanding of the principles that are taught through their other core academic classes as these objectives are applied through the CTE courses. Likewise, as our society is becoming even more reliant upon technology, understanding of principles that are taught through the CTE courses are imperative.

The following pages outline the many courses that are available for students at each grade level at MTHS. Please feel free to contact me at any time if you have questions about which courses are right for you. We look forward to having you in our CTE classes during this next year!

Joseph Bachman  
Career & Technical Education Department Chair  
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## FRESHMEN

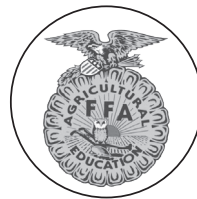
*The following CTE classes are available for Freshmen:*



### **Intro to Career & Technical Education**

Year: 1.0 Credit  
Prerequisites: None

6-week Rotations between Agriculture, Drafting, Electronics, Graphic Arts, Metals, & Wood Technology



### **Basic Ag Science**

Year: 1.0 Credit  
Prerequisites: None



### **Honors Engineering Essentials**

Year: 1.0 Credit  
Prerequisites: None

# SOPHOMORES

The following CTE classes are available for Sophomores:



## AGRICULTURE

**Basic Ag Science 1 & 2**  
Year: 0.5 Credit each class  
Prerequisites: None

**Landscape Horticulture**  
Year: 0.5 Credit  
Prerequisite: None

**Veterinary Technology 1 & 2**  
Year: 0.5 Credit each class  
Prerequisites: None

**Supervised Ag Experience 1**  
Year: 1.0 Credit  
Prerequisites: None

**Small Engines / Electrical Wiring**  
Semester: 0.5 Credit  
Prerequisites: None



## ELECTRONICS

Semester: 0.5 Credit  
Prerequisites: None



## ROBOTICS

Semester: 0.5 Credit  
Prerequisites: None



## PROJECT LEAD THE WAY

**Honors Engineering Essentials**  
Year: 1.0 Credit  
Prerequisites: None

**Honors Principles of Engineering**  
Year: 1.0 Credit  
Prerequisites: None

**Honors Digital Electronics**  
Year: 1.0 Credit  
Prerequisites: None

**Honors Introduction to Engineering Design**  
Year: 1.0 Credit  
Prerequisites: None



## AUTO MECHANICS

**Intro to Auto Mechanics**  
Semester: 0.5 Credit  
Prerequisites: None



## DRAFTING

**Drafting 1**  
Semester: 0.5 Credit  
Prerequisites: None

**Advanced Drafting (2nd Semester only)**  
Year: 0.5 Credit  
Prerequisites: Drafting I, Intro to Engineering Design, or teacher's permission



## WELDING / METALS

**Metals (Machine Tool Operation)**  
Semester: 0.5 Credit  
Prerequisites: None

**Welding**  
Semester: 0.5 Credit  
Prerequisites: None

**Advanced Metals (Machine Tool Operation)**  
Semester: 0.5 Credit  
Prerequisites: Metals

**Advanced Welding**  
Semester: 0.5 Credit  
Prerequisites: Welding



## GRAPHIC ARTS

**Graphic Arts**  
Semester: 0.5 Credit  
Prerequisites: None

**Digital Imaging**  
Semester: 0.5 Credit  
Prerequisites: None



## WOODS

**Wood Technology**  
Semester: 0.5 Credit  
Prerequisites: None

# JUNIORS

The following CTE classes are available for Juniors:



## AGRICULTURE

### Basic Ag Science 1 & 2

Year: 0.5 Credit each class

Prerequisites:

### Landscape Horticulture

Year: 0.5 Credit

Prerequisite: None

### Veterinary Technology 1 & 2

Year: 0.5 Credit each class

Prerequisites: None

### Supervised Ag Experience 1 or 2

Year: 1.0 Credit

Prerequisites: None

### Small Engines / Electrical Wiring

Semester: 0.5 Credit

Prerequisites: None



## AUTO MECHANICS

### Intro to Auto Mechanics

Semester: 0.5 Credit

Prerequisites: None

### Auto Mechanics 1

Year: 1.0 Credit

Prerequisites: None



## DRAFTING

### Drafting 1

Semester: 0.5 Credit

Prerequisites: None

### Advanced Drafting

Year: 0.5 Credit

Prerequisites: Drafting I, Intro to Engineering Design, or teacher's permission



## GRAPHIC ARTS

### Graphic Arts

Semester: 0.5 Credit

Prerequisites: None

### Digital Imaging

Semester: 0.5 Credit

Prerequisites: None

### Advanced Graphic Arts

Year: 1.0 Credit

Prerequisites: Graphic Arts

### Digital Video Production 1

Semester: 0.5 Credit

Prerequisites: None

### Production Graphic Arts

Year: 1.0 Credit

Prerequisites: Advanced Graphic Arts

### Digital Video Production 2

Semester: 0.5 Credit

Prerequisites: None



## ELECTRONICS

Semester: 0.5 Credit

Prerequisites: None



## ROBOTICS

Semester: 0.5 Credit

Prerequisites: None



## PROJECT LEAD THE WAY

### Honors Engineering Essentials

Year: 1.0 Credit

Prerequisites: None

### Honors Civil Engineering & Architecture

Year: 1.0 Credit

Prerequisites: IED or Drafting

### Honors Digital Electronics

Year: 1.0 Credit

Prerequisites: None

### Honors Introduction to Engineering Design

Year: 1.0 Credit

Prerequisites: None

### Honors Principles of Engineering

Year: 1.0 Credit

Prerequisites: None



## WELDING / METALS

### Metals

#### (Machine Tool Operation)

Semester: 0.5 Credit

Prerequisites: None

### Advanced Welding

Semester: 0.5 Credit

Prerequisites: Welding

### Advanced Metals

#### (Machine Tool Operation)

Semester: 0.5 Credit

Prerequisites: Metals

### Production Welding

Semester: 0.5 Credit

Prerequisites: Welding & Advanced Welding

### Welding

Semester: 0.5 Credit

Prerequisites: None



## WOODS

### Wood Technology

Semester: 0.5 Credit

Prerequisites: None

### Production Woodworking 1

Year: 1.0 Credit

Prerequisites: Wood Technology or teacher's permission

# SENIORS

The following CTE classes are available for Seniors:



## AGRICULTURE

### Basic Ag Science 1 & 2

Year: 0.5 Credit each class  
Prerequisites: None

### Veterinary Technology 1 & 2

Year: 0.5 Credit each class  
Prerequisites: None

**Small Engines / Electrical Wiring**  
Semester: 0.5 Credit  
Prerequisites: None

### Landscape Horticulture

Year: 0.5 Credit  
Prerequisite: None

### Supervised Ag Experience 1, 2, or 3

Year: 1.0 Credit  
Prerequisites: None



## AUTO MECHANICS

### Intro to Auto Mechanics

Semester: 0.5 Credit  
Prerequisites: None

### Auto Mechanics 1

Year: 1.0 Credit  
Prerequisites: None

### Auto Mechanics 2

Year: 2.0 Credits; two consecutive periods  
Prerequisites: Auto Mech. 1 (Intro to Auto Mech. with teacher's permission)



## DRAFTING

### Drafting 1

Semester: 0.5 Credit  
Prerequisites: None

### Advanced Drafting

Year: 0.5 Credit  
Prerequisites: Drafting I, Intro to Engineering Design, or teacher's permission



## ELECTRONICS

Semester: 0.5 Credit  
Prerequisites: None



## ROBOTICS

Semester: 0.5 Credit  
Prerequisites: None



## GRAPHIC ARTS

### Graphic Arts

Semester: 0.5 Credit  
Prerequisites: None

### Advanced Graphic Arts

Year: 1.0 Credit  
Prerequisites: Graphic Arts

### Production Graphic Arts

Year: 1.0 Credit  
Prerequisites: Advanced Graphic Arts

### Digital Imaging

Semester: 0.5 Credit  
Prerequisites: None

### Digital Video Production 1

Semester: 0.5 Credit  
Prerequisites: None

### Digital Video Production 2

Semester: 0.5 Credit  
Prerequisites: None



## PROJECT LEAD THE WAY

### Honors Engineering Essentials

Year: 1.0 Credit  
Prerequisites: None

### Honors Digital Electronics

Year: 1.0 Credit  
Prerequisites: None

### Honors Principles of Engineering

Year: 1.0 Credit  
Prerequisites: None

### Honors Civil Engineering & Architecture

Year: 1.0 Credit  
Prerequisites: IED or Drafting

### Honors Introduction to Engineering Design

Year: 1.0 Credit  
Prerequisites: None



## WOODS

### Production Woodworking 1

Year: 1.0 Credit  
Prerequisites: None

### Production Woodworking 2

Year: 1.0 Credit  
Prerequisites: Production Woodworking 1 or teacher's permission



## WELDING / METALS

### Metals (Machine Tool Operation)

Semester: 0.5 Credit  
Prerequisites: None

### Advanced Metals (Machine Tool Operation)

Semester: 0.5 Credit  
Prerequisites: Metals

### Welding

Semester: 0.5 Credit  
Prerequisites: None

**Advanced Welding**  
Semester: 0.5 Credit  
Prerequisites: Welding

**Production Welding**  
Semester: 0.5 Credit  
Prerequisites: Welding & Advanced Welding