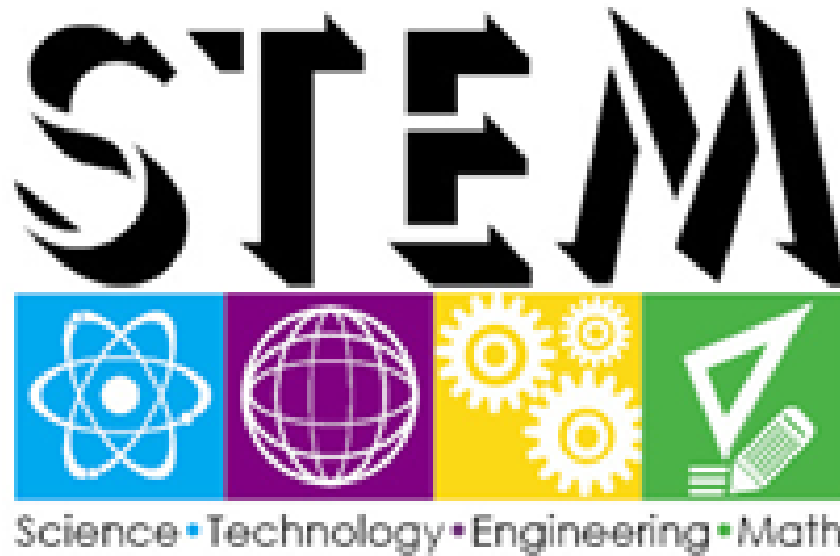


# Menomonee Falls STEM Academy



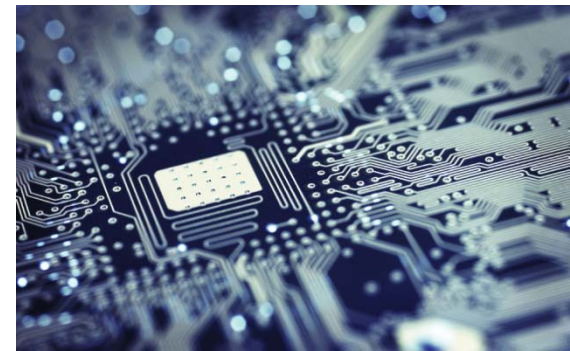
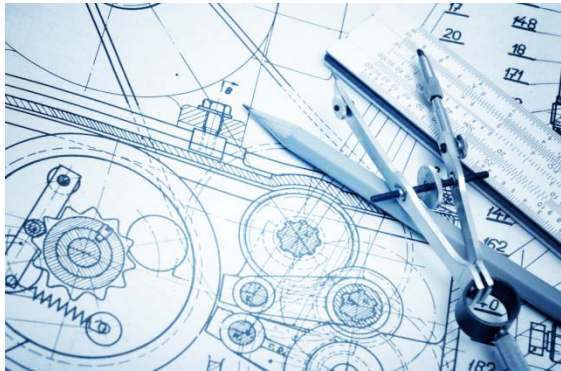


## Academy Mission

The mission of the STEM (Science, Technology, Engineering, & Math) Academy is to use an integrated sequence of courses and active involvement of business to target essential skills and understandings that prepare students for work and college environments related to careers in STEM.

# Career Pathways

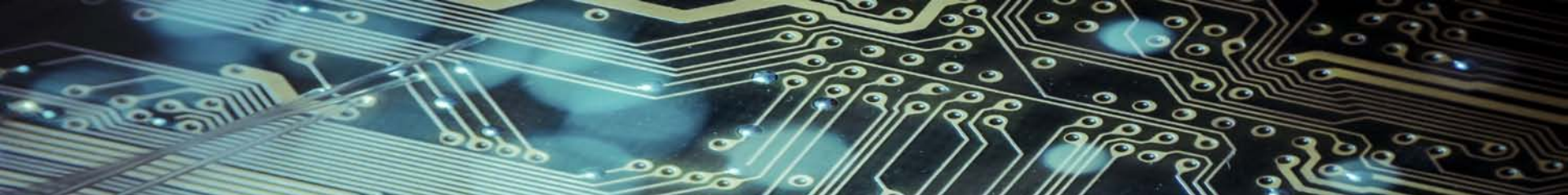
- Engineering
- Computer Science
- Applied Technology





# Engineering

- **9<sup>th</sup> Grade**
  - Introduction to Engineering and Design (PLTW)  
*Suggested*
- **10<sup>th</sup> Grade**
  - Principles of Engineering (PLTW)
- **11<sup>th</sup> Grade**
  - Civil Engineering and Architecture (PLTW)
  - Digital Electronics (PLTW)
  - Environmental Sustainability (PLTW)
- **12<sup>th</sup> Grade**
  - STEM Capstone Course



# Computer Science

- **9<sup>th</sup> Grade/10<sup>th</sup> Grade**
  - Computer Science Fundamentals
  - App and Game Development
- **11<sup>th</sup> Grade/12<sup>th</sup> Grade**
  - AP Computer Science – Java
  - AP Computer Science – Principles
  - Mobile App Development
  - Falls Tech Force Course
- **12 Grade**
  - STEM Capstone Course



# Applied Technology

- **Materials and Process: Metal**
- **Materials and Process: Wood and Plastic**
- **Construction and Technology**
- **Advanced Manufacturing and Metals**
- **12<sup>th</sup> Grade – STEM Capstone Course**



# Stem Academy Requirements

- **Academy Application – Due February 8, 2017**
- **4 years of Appropriate Math and Science Courses**
- **Enrollment in the STEM Capstone Course**
- **8 hours of job shadowing in STEM field**
- **40 hours of volunteer or work experience in STEM related field (can include participation in MFHS groups and Clubs)**



# MFHS Groups and Clubs

- **Robotics Club**
- **Falls Tech Force**
- **Tech Club**





# Value of the STEM Academy

- Endorsement on diploma
- The experiences will assist students with college and scholarship applications
- Focus on career interests
- Networking



Questions?