



# ENGINEERING TECHNOLOGIES & DESIGN

The Medina County Career Center's Engineering Technologies and Design program is a sequence of pre-engineering courses introducing students to the scope and discipline of the profession. Students learn how to work in various engineering settings and use software such as Autodesk Inventor, Revit and more. Students who are currently enrolled in college preparatory math and science courses are eligible for this program.

## Curriculum

- Intro to Engineering Design
- Principles of Engineering
- Intro to Civil Engineering and Architecture
- Computer Integrated Manufacturing
- Digital Electronics
- Engineering Design and Development Capstone
- Inventor
- Revit
- Auto CAD
- Robot C VEX Programming Software
- West Point Bridge Builder
- KUKA Robotics
- PathPilot CNC Software

Students have the opportunity to earn college credits in this program.

## Some Employment Opportunities

- Mechanical engineer
- Architect
- Robotics engineer
- CAD designer
- Aerospace engineer
- CNC apprentice
- Civil engineer
- Architectural, civil or mechanical drafter
- Internship

*\*Students who meet certification criteria will have the opportunity to test in their CT program.*

## Certification\*

- National Project Lead the Way
- Inventor
- Revit
- AutoCAD
- KUKA Robot Programming
- OSHA 10-Hour
- CPR/First Aid

## Equipment

- Dimension 1200es 3D printer
- Handheld 3D scanner
- Laser engraver
- Stress analyzer
- 3- desktop CNC machines
- Scorbot robot arm
- VEX robotics system
- KUKA robot arm
- FormLabs 3D Printer
- 3-Ultimaker 3D Printers



Visit [mcjvs.edu](http://mcjvs.edu) for more information about our Engineering Technologies and Design program.

