CAD/Mechanical Engineering Technology

Department: Industrial Technologies
Degree: Associate of Applied Science
Entry time: Fall
Length: 2 years (4 semesters and 1 summer)

- **Kibbie Grant**: Students in this program may be eligible to have half their tuition paid for by the Kibbie Grant. Go to www.kirkwood.edu/Kibbie for more details.

- Students are taught in a variety of ways including classroom and immersive lab experiences.

- **Cutting-edge computer design programs** to give students applicable experience for their careers.

- The curriculum focuses on a variety of engineering principles used in the field today.

- Students have the opportunity to design and test real products.

- Knowledgeable faculty with industry experience who are eager to help learners reach their potential.

- Students can transfer credits from this program to the University of Northern Iowa or William Penn University and work toward a B.S. in manufacturing or industrial technology.

- **Program Description**
  The CAD/Mechanical Engineering Technology curriculum prepares students for entry-level positions as mechanical engineering technicians and provides skills for those already in the field to gain advancement to designer status. Students focus on engineering fundamentals and the means of conveying design intent from drawing layouts and symbols through geometric dimensioning and tolerancing.

  Industry-standard CAD software is taught during all four semesters of the program to enhance employment opportunities. Competency in engineering fundamentals is built through courses in statics, strength of materials, kinematics, hydraulics, dynamics and machine design.

- **Sample Classes**
  - AutoCAD for Applied Engineering
  - Engineering Drawings
  - Engineering Design
  - Introduction to Computers
  - Technical Mathematics
  - Physics
  - Parametric Solid Modeling
  - Applied Statics
  - Geometric Dimensioning and Tolerancing
  - Strength of Materials
  - Kinematics
  - Hydraulics
  - Dynamics
  - Design Problems
  - Machine Design

- **Industry Endorsements Earned:**
  - National Career Readiness Certificate;
  - AutoDesk/CAD Certificate;
  - AutoDesk/Inventor Certificate.

- **Career Opportunities**
  - Engineering technician
  - Test lab technician
  - CAD operator/designer
  - Technical writer
  - Mechanical engineering assistant

- **Scholarships**
  Kirkwood will help you pay for college! Kirkwood awards more scholarships than any other community college in Iowa. For more information and to apply, visit www.kirkwood.edu/scholarships.