



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.

Career Opportunities

Engineering technician
Test lab technician
CAD operator/designer
Technical writer
Mechanical engineering assistant

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.

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.

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