



Engineering & Robotics

Combining fields such as mechanical engineering, electronics, robotics and computers result in this fascinating, applied engineering field. Areas of study include electronics, control systems, manufacturing, computer aided design and robotics. Career opportunities include manufacturing equipment installation and maintenance, automation equipment design and installation, and manufacturing engineer.



◆ Course Sequence

1. Engineering Design
2. Principles of Manufacturing
3. Computer Integrated Manufacturing
4. Robotics

◆ College Credit Opportunities

- Computer Aided Drafting
- Engineering Design
- Intro to Engineering
- Material Science
- Technical Report Writing
(Prerequisite - College English Composition)

College Credit Plus general education and other dual credit courses are also available.

◆ Industry Credentials

- Autodesk Fusion 360 Certified User
- Autodesk Inventor Certified User Certification
- Career Connections - Level 1
- Leadership Excellence - Students
- Measurement Materials & Safety

Pathway Promise: Scholars that successfully complete this pathway will be prepared with industry credentials, college credits, and community experiences that support their future aspirations.



**College & Career
Academies**

AKRON PUBLIC SCHOOLS

ELLET

Engineering & Robotics

Entry-Level Careers

- 3D Printing Technician
- Aircraft Structure Systems Assembler
- CAD Technician
- CNC Technician
- Drone Operator
- Fabrication Draftsperson
- Field Surveyor Assistant
- General Maintenance Technician
- Inventory Control Technician
- Production Assembler, Mechanical
- Quality Assurance Technician
- Test Lab Technician

Technical Careers

(Advanced certification, Apprenticeship, or Associates Degree)

- Advanced Manufacturing Technician
- Animatronics Technician
- CAD Designer/Coordinator
- Chemical Engineering Technician
- Computer Engineering Technician
- Construction Technician
- Engineering Office Manager
- Lab Technologist
- Marine Robot Programmer
- Mechatronics Technician
- Meter Technician
- Oil & Gas Field Service Technician

Professional Careers

(Bachelor's Degree or higher education)

- Aerospace Engineer
- Architect
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Corrosion Engineer
- Electrical/Electronics Engineer
- Hardware/Software Engineer
- Industrial Engineer
- Mechanical Engineer
- Mechatronics Engineer
- Petroleum Engineer