

ENGINEERING

Cookeville High School | CTE Programs | Program of Study

High School Classes

Introduction to Engineering

Design I: - Introduces students to engineering and technology and the engineering design process.

Principles of Engineering

Design II: Students learn to describe various engineering disciplines, simple and complex machines, calculate various mathematical equations related to mechanics and learn fundamental energy concepts.

Principles of Engineering

Design III: Focuses on the ethics of engineering, design control systems, fluid power systems, engineering economic analysis, and material and mechanical designs.

Dual Credit (DC)/ Dual Enrollment (DE) Opportunities

Introduction to Engineering
Technology

Technical Graphics



Student Opportunities

Students who choose Engineering as their program of study could have a career in any area of engineering such as architectural, environmental, online, engineering management, chemical, civil, mechanical, electrical, geotechnical, computer, or bio engineering, and many more. They also are given the opportunity to gain leadership skills in class and through Project Lead the Way. Students

gain hands-on experiences through supervised real world experiences using Science,

Math, Engineering, and Technology to solve complex, open-ended problems. These opportunities develop highly transferable skills in collaboration, communication, and critical thinking.



Careers

Mechanical Engineer

Civil Engineer

Electrical Engineer

Geotechnical Engineer

Computer Engineer

Chemical Engineer

Engineering Manager

Online Engineer

Environmental Engineer

Architectural Engineer

Bio Engineer

Project Manager

Educator

Degrees & Certifications

Certifications:

Associates: Architectural Engineering, Civil and Construction Engineering, Computer and Engineering Technology

Bachelors: Basic Engineering, Chemical Engineering, Civil and Environmental Engineering, Manufacturing and Engineering Technology, Mechanical Engineering

Graduate: Basic Engineering, Chemical Engineering, Civil and Environmental Engineering, Manufacturing and Engineering Technology, Mechanical Engineering

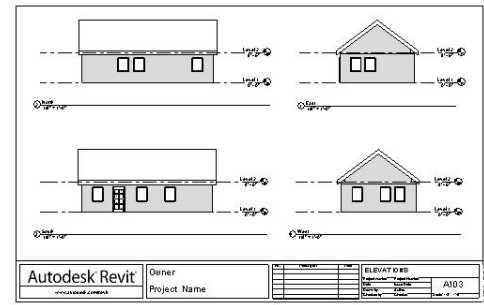
Competitions

Our students often have the chance to shine at national Career

Development Events through SkillsUSA

competitions. Event categories include

robotics, design, and electronics technology with the possibility to win college scholarships.



Industry Participants

We are always interested in partnering with local businesses in the community. If you are interested or know someone who is, please don't hesitate to contact us.

