Engineering

Engineering and robotics are essential in today's manufacturing industry. A problem-solving mindset is foundational to the engineering field. You will learn how to step into the role of an engineer to develop solutions to problems by engaging in real-world problems. Students will explore engineering topics such as mechanisms, strength of structures and materials, and automation/robotics.

Is This You?

- ✓ I am interested in how things work
- ✓ I am analytical
- ✓ I like solving problems
- ✓ I like to use technology

Career Opportunities:
Civil Engineer, Electrical Engineer, Mechanical Engineer, BioMedical Engineer, Industrial Engineer

SkillsUSA®

Potential to Earn: 2 Industry Certifications 12 College Credits

Course Work in this Career Pathway

Middle School Career Exploration Course	Robotics & Engineering Grades 7 or 8			
Intro-Level Courses	Intro to Engineering (PLTW) Grades 9-12	Intro to CAD Grades 9-12	Intro to Technology Grades 9-12	
Specialized Courses	Principles of Engineering (PLTW) Grades 10-12	Intro to Robotics DC Grades 9-12	Civil Engineering (PLTW) Grades 10-12	Electronics - DC Circuits 1 Grades 11-12
Capstone Courses	Engineering Design & Development (PLTW) Grades 11-12	Youth Apprenticeship Grades 11-12		
Additional Recommended Courses for 4-Year Programs	AP Calculus AB & AP Calculus BC or IB Mathematics, AP Physics 1 & AP Physics 2 or IB Physics, AP Chemistry, Oral & Interpersonal Communication DC			

AP – Advanced Placement **DC** – Dual Credit **IB** – International Baccalaureate **PLTW** – Project Lead the Way