

Engineering

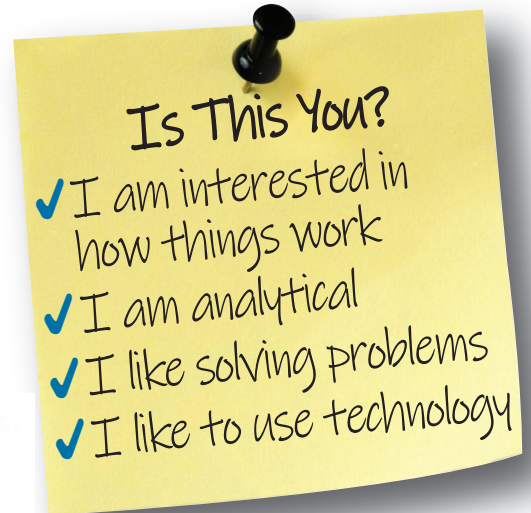
Engineering and robotics are essential in today's manufacturing industry. A problem-solving mindset is foundational to the engineering field. You will learn how to step into the role of an engineer to develop solutions to problems by engaging in real-world problems. Students will explore engineering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

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  
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 