CTE Communica Islaminos E

CTE Courses at DRMS

Science, Technology, Engineering, & Mathematics (STEM) Courses

The courses below are part of the Project Lead the Way curriculum which is used in the 9th through 12th grade level Engineering courses at DRFS and DRHS.

Principles of Applied Engineering

Grade 7 1 High School Credit

Design and Modeling: Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. They work in teams to design a playground and furniture, capturing research and ideas in their engineering notebooks. Using Autodesk design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

Automation and Robotics: Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

Engineering Essentials

Grade 8 1 High School Credit

Students explore the breadth of engineering career opportunities and experiences as they solve engaging and challenging real-world problems like creating a natural relief center system or creating a solution to improve the safety and well-being of local citizens.