

Engineering Sector

Project Lead the Way

PLTW Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset and make the leap from dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. From launching space explorations to delivering safe, clean water to communities, engineers find solutions to pressing problems and turn their ideas into reality. Students take from the courses in demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.



EGUSD ACADEMIES & PATHWAYS

- Valley High School, Project Lead the Way-Engineering for Computer Integrated Manufacturing Pathway

CAREER OPPORTUNITIES

- Aeronautical Engineer
- Flight Engineer
- Electrical Engineer
- Civil Engineer
- Construction Management
- Mechanical Engineer
- Fabrication Designer

CONTACT INFORMATION



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PLTW-Engineering for Computer Integrated Manufacturing Pathway
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SAMPLE PROGRAM OF STUDY

* The sample program of study outlined below lists academy-specific courses and does not include the full list of graduation requirements in writing, math, VAPA, WL, etc. These courses are subject to change based upon industry trends.

Career-Themed Course(s)

PLTW Engineering for Computer Integrated Manufacturing: Students discover and explore manufacturing processes, product design, robotics and automation, and then they apply what they have learned to design solutions for real-world manufacturing problems.

- Year 1: Introduction to Engineering and Design
- Year 2: Principles of Engineering
- Year 3: Computer Integrated Manufacturing
- Year 4: Engineering Design and Development

