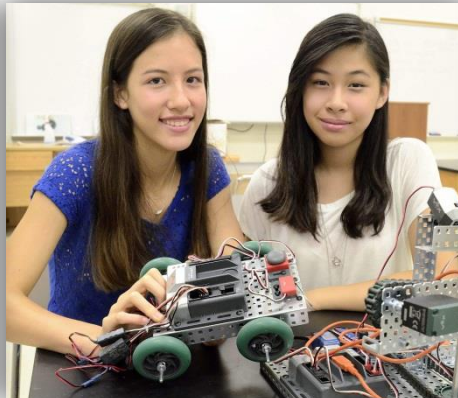
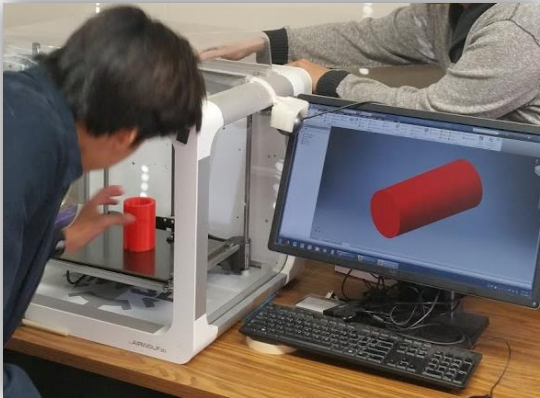


# ENGINEERING

## CAREER PATHWAY



### Courses Available

Either concentrator level course must be taken before enrolling in a capstone level class.

**Product Design Studio 1:** Learn the fundamentals of two-dimensional sketching and drafting before moving on to 3D modeling, assembly, and rapid prototyping in a variety of project-based designs. Enjoy seeing an idea transform into a sketch before becoming a three-dimensional product. Practice and refine skills using hand and machine tools as well as software and 3D printers.

**Intro to Engineering Design (UC“f” or “g”):** Practice the design process, conduct research and analysis, and do technical documentation while performing hands-on projects, designing creative solutions to real-world products and problems, and developing 3D software proficiency. This course uses the renowned Project Lead the Way curriculum.

Students who complete any of these capstone courses earn CTE Engineering Pathway Completion certificates.

**Product Design Studio 2:** Through project-based learning, engage in advanced creative solutions to a variety of product design challenges.

**Principles of Engineering (UC“g”):** This course is ideal for students considering careers in Engineering, with a focus on engaging and challenging projects designed to develop a deeper understanding of mechanisms, structural strength, materials, automation, and robotics. Apply skills in problem solving, research, design, and testing while building strategies for documentation, collaboration, and presentation. This course uses the renowned Project Lead the Way curriculum.