

Manufacturing/Engineering/Robotics Pathway

This pathway is designed to give students experience in a large variety of career opportunities. As students design and build projects for multiple applications, they are exploring manufacturing, engineering and robotics . All classes are hands on and project based. Students learn fundamental skills and progress through advanced classes as far as they choose to go.

Engineering Technology

Engineering Technology is the beginning class in this pathway. Engineering Technology is a hands on, project based class that teaches students the fundamentals designing and building using computer applications. Students who are interested in pursuing engineering at the college level can learn the computer aided designing skills used throughout all engineering disciplines. Students work together to design and build solutions to engineering challenges.

Manufacturing Technology

Students learn how to design and build projects in an industrial shop. This is a hands on “shop” class giving students experience using the latest in manufacturing technology. Computer drawing, 3D printing, computer controlled machining and welding are all covered.

Advanced

Engineering Technology

Students learn high level computer drawing skills and advance to applying the design process to exciting and challenging projects. Projects include working with drones and radio controlled technology.

Advanced

Manufacturing Technology

Students learn high level manufacturing skills and techniques. Projects revolve around computer aided drafting, CNC machining and welding. Field trips to local manufacturing companies are included.

ROBOTICS

Robotics Engineering - Sehome has an extensive robotics program that takes students to the highest levels possible in computer science, engineering, and manufacturing. Students can apply the skills learned in the pathway classes to building robots for multiple world wide competitions. Sehome robotics competes in VEX robotics, FTC Challenge, and FIRST Robotics. See Mr. Criez for more info.