

GOAL STATEMENT

Design Engineering

Thomas Jefferson High School

The Design Engineering course gives the students an opportunity to apply their knowledge and skills from AutoCAD software in order to solve real-world problems. Students will develop an understanding of design and engineering processes to invent or innovate materials and products. At the completion of the course, students will have developed a well-organized portfolio of projects completed showing growth in CAD software as well as design development.

During the course the student will:

1. Identify, apply, and analyze the technological design process in addition to using parametric modeling software to solve problems.
2. Apply advanced tools and machines to solve complex problems.
3. Apply technological resources to solve specific societal needs.
4. Analyze physical technologies including structural design and engineering to solve real-world problems.