

GOAL STATEMENT

Pre-Engineering Principles

Thomas Jefferson High School

The Pre-Engineering Principles course is designed for students to continue to develop skills in AutoCAD software. Architecture using Autodesk software will be the primary focus of this course. Students will develop an understanding of construction technology while developing several working architectural drawings. Students will also develop skills creating solid models and using animation to complete several projects. A well-organized portfolio of projects completed will be developed at the end of the course.

During the course the student will:

1. Apply scale as a way of relating concepts and ideas to one another by measurement.
2. Apply knowledge of AutoCAD through encoding, transmitting, receiving, storing, retrieving, and decoding information.
3. Utilize and evaluate architectural software to solve specific problems.
4. Identify and apply the technological design process in addition to using AutoCAD software to solve problems.
5. Analyze and use the technological design process in addition to using AutoCAD software to solve problems.
6. Apply the use of ingenuity and technological resources to solve specific societal needs.
7. Identify and apply architectural concepts to create several working drawings using architectural software.