

GOAL STATEMENT

Automation

Thomas Jefferson High School

This course is for students who want to apply modern industrial techniques to solve problems. Students will use the computer to operate tools and machines. The final project will be to use the machines to aid in the construction of a robotic device that will perform a specified function.

During the course the student will:

1. Identify and apply the technological design process to solve problems.
2. Apply scale as a way of relating concepts and ideas to one another by measurement.
3. Apply advanced tools, materials, and techniques to solve complex problems.
4. Apply appropriate instruments and apparatus to examine a variety of objects and processes.
5. Apply basic computer operations and concepts.
6. Evaluate computer operations and concepts as to their effectiveness to solve specific problems.
7. Utilize computer software to solve specific problems.
8. Apply the use of ingenuity and technological resources to solve specific societal needs and improve the quality of life.