

# STRANDS

## **Engineering Applications**

Thomas Jefferson High School

- I. Software and Computer Operated Machines
  1. Develop an understanding for the software used in operating CNC machines
  2. Develop skills in using computer operated machines
  3. Create several products using software and machines.
  
- II. Research and Development
  1. Identify an advanced independent research and development project
  2. Develop a solution using Auto Desk and CNC software
  3. Create working drawings
  
- III. Working Model
  1. Apply advanced tools and techniques to create a working model
  2. Manipulate several media and material to create a model
  3. Test and evaluate the completed project
  
- IV. Final Solution
  1. Develop a presentation
  2. Present completed project
  3. Evaluate and self-asses the final solution