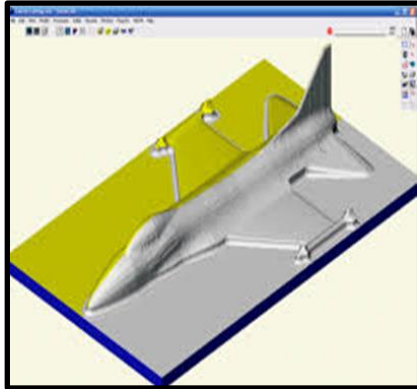


Computer Integrated Manufacturing



Prerequisite: Intro to Engineering Design AND Principles of Applied Engineering
 Course: 1838CT Credits: 1 Length: 18 weeks Placement: 10-12

Course Description

In Computer Integrated Manufacturing the student will examine and utilize modern manufacturing practices and computer techniques used to design and build various projects from clients around the district. Students will learn about and incorporate their knowledge of robotics to laser cutting and engraving, and 3D printing to complete these projects.

Students can earn weighted credit for this course.

Student Activities

Student projects include:

1. Laser cutting and engraving key chains, signs, puzzles, toys, awards, and other items.
2. 3D Printing of miniatures, gears, toys, chess pieces, tools, etc.
3. Wood, plastics, and metal crafting
4. Robotics and Automation, CNC Milling and Lathe, and 3D modeling.

Additional Considerations

Students must have successfully completed Geometry without modification. Students need fine motor skills and mobility. Cannot modify curriculum.

Organizations/After School/Competitions

Shine Runners Solar Car Racing Team
 FTC Robotics
 Technology Student Association

Certificate of Excellence



Students can earn a Certificate of Excellence by achieving a specific list of real world skills related to this course. For the list of skills, please visit

goo.gl/9VM3a9