

## **Adult Education Engineering Class Overview**

### **INSTRUCTOR**

- **Anthony Lusardi (lusardia@wctech.org)**

### **COURSE LENGTH**

- **12 Week course**

### **TIME/DAY OF THE WEEK**

- **6:00pm-9:00pm every Tuesday, starting on September 14th**

### **COURSES OFFERED**

- **CAD I - Overview**
  - o **Drafting and modeling**
    - **Students will learn the steps to properly generate 2D sketches**
    - **They will learn how to make 3D models including protrusions, revolves and patterns.**
    - **Students will become proficient in editing designs efficiently.**
  - o **Drawings**
    - **Students will learn the basics for making drawings.**
    - **They will know how to add views and detail.**
  - o **Assembly**
    - **Students will learn how to make assemblies using CAD.**
    - **They will learn how to incorporate modifications in order to optimize their designs.**
  - o **Analysis**
    - **Students will learn how to use CAD to perform analysis including motion analysis and FEA.**
  - o **Presentations**
    - **Students will learn how to present their CAD designs, drawings and analysis information.**

**MAXIMUM CAPACITY (per course)**

- **10 Students**

**TOTAL MATERIAL COSTS (approximate)**

- **All courses have an estimated material cost of \$90.**
  - **Plastic filament for 3D printer - \$25 per student**
  - **For Autodesk Inventor Tutorial Book - \$65 per student**
  - **Licenses will already be paid for day students, so there are no additional charges**
- **Link for Autodesk Inventor Manual.**

**<https://www.amazon.com/Autodesk-Inventor-2020-Tutorial-Introduction/dp/1630572527>**

**\*\*\*If you're interested and you'd like more information, please email the teacher directly. Use the email address at the top of this page.\*\*\***

**THANK YOU!**