



Ephrata High School Course Syllabus

CAD3 – Advanced 3D 5902



I. Course Description

This course will allow students to use their computer drafting skills to actually design and produce drawings of machines and commercial products. Assignments in this class will be similar to drawings required of drafters in industry to give students an experience of the real world of drafting and engineering.

II. Materials & Equipment

Software-AutoCAD 2007
Desktop Computer
Printer & Wide Format Printer
Text-AutoCAD And Its Applications
Text-Technical Drawing

III. Course Goals & Objectives

Students will:

1. Learn how to use the 3D features of the AutoCAD software
2. How to read and interpret technical drawings
3. Interpreting technical informational charts
4. Develop problem solving skills
5. Develop spatial visualization skills
6. Being able to convert one type of technical drawing into another type
7. Applying mathematics
8. Create 3D drawings of machined assemblies
9. Create 3D presentations drawings
10. Create rendered 3D drawings

IV. Course Topics (Summary Outline)

Topics covered in the course will be:

- A. How to use the 3D features of the AutoCAD software
- B. How to draw in 3D solids
- C. How to draw 3D machined assemblies
- D. How to create 3D presentation prints of machined assemblies
- E. How to create rendered 3D drawings

V. Assignments & Grading

-Assignments will consist of completing assigned drawings.
-Each completed drawing will have an assigned value and graded on accuracy and printed presentation of assemblies.
-Grades will consist of total points of all assigned drawings.