



Ephrata High School Course Syllabus



Independent AutoCAD 59020

I. Course Description

Students planning drafting careers or pursuing further drafting related education would benefit from this advanced computer-aided drafting course. Students may choose to specialize in either technical or architectural drawing. Those students interested in architectural drawing may design plans for commercial buildings, residential or multi-family dwellings with approval. Independent technical students will research and develop drawings on a subject of their interest with approval

II. Materials & Equipment

Technical Students

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

Architectural Students

Software-AutoDesk Architectural Desktop
Software- Powerpoint
Desktop Computer
Printer & Wide Format Printer
Text – Architecture – Residential Drawing and Design

III. Course Goals & Objectives

Technical students will:

1. Research a technical object or machine
2. Design a machine or object they have researched and develop a complete set of presentation drawings
3. Present their design to a technical CAD class
4. Create a PowerPoint presentation of their design.

Architectural students will:

1. Research a commercial or residential building
2. Design a building of the type they have researched and create a set of architectural drawings.
3. Present their design to an architectural class
4. Create a PowerPoint presentation of their design.

IV. Course Topics (Summary Outline)

Topics covered in the technical course will be:

- A. How estimate sizes of objects to create drawings
- B. How to develop you own design
- C. How to select
- D. How to create a PowerPoint design for technical presentation
- E. How to present a technical presentation

Topics covered in the architectural course will be:

- A. How to developing designs within an architectural style structure
- B. How to research an architectural style or building design
- C. How to use building codes in your design
- D. How to create a PowerPoint design for technical presentation
- E. How to present a architectural presentation

V. Assignments & Grading

- Assignments will consist of developing a complete set of required drawings.
- Each completed drawing will have an assigned value and graded on accuracy and printed presentation designs.
- Grades will consist of total points of all assigned drawings.
- Grade for PowerPoint presentation
- Grade for classroom presentation

