



Ephrata High School Course Syllabus



Architectural CAD 3 5907

I. Course Description

Students planning architectural drafting careers or pursuing further education in a technical school or architectural degree program will benefit from this advanced CAD course. Students interested in architectural drawing may design plans for commercial buildings, residential, or multi-family dwellings. Students planning drafting related careers or structural engineering education would also benefit from the advanced CAD and design skills developed in this course.

II. Materials & Equipment

Software-AutoCAD 2007
Software-AutoDesk Architectural Desktop 2007
Desktop Computer
Printer & Wide Format Printer
Text-AutoCAD And Its Applications
Text-Architecture- Residential Drawing and Design

III. Course Goals & Objectives

Students will:

1. Learn how to use the further advanced features of AutoDesk Architectural Desktop
2. How to read and interpret architectural drawings
3. Develop multi-leveled and more complex house or a commercial designs
4. Develop problem solving skills
5. Develop spatial visualization skills
6. Apply mathematics in practical ways
7. Developing a sense of accuracy
8. Develop a sense of good architectural design

IV. Course Topics (Summary Outline)

Topics covered in the course will be:

- A. How to use advance features of AutoDesk Architectural Desktop
- B. How to research architectural designs
- C. How to meet building codes
- D. How to develop and draw multi-leveled, complex floor plans
- E. How to develop commercial building drawings
- F. How to design and draw wall sectional drawings
- G. How to design and draw complex elevation drawings
- H. How to create and build a model
- I. How to draw two-point exterior house perspective
- J. How to draw a one-point interior perspective

V. Assignments & Grading

- Assignments will consist of completing assigned architectural drawings and model.
-Each completed drawing or model will have an assigned value and graded on accuracy, correctness and completeness of the drawing or model requirements.
-Grades will consist of total points of all assigned drawings or model.