

Name_____

Date_____

AutoCAD

Course Guidelines and Goals
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Course Description

Engineers and technologists are people who use science, technology, art and math to create things that advance society. This course will introduce you to the **Design Process** using hand sketching techniques and engineering drawing using **AutoCAD**. During this course, you will also learn to create mechanical parts and floor plans with **AutoCAD**. Hopefully, you come away from this course inspired to look at careers in mechanical engineering, product design or architectural design.

The course is divided into two parts. First, you will learn the skills necessary to hand sketch designs. We will practice hand sketching throughout the semester. Second, you will display proficiency in the basic operations of AutoCAD software. You will further develop your proficiency in AutoCAD by creating your own house designs according to design specifications. You will use the Design Process to create your designs.

Timeline

Classes

- 1, 2 – Introduction – setting up for Remote Learning
- 3 – Rules and Procedures
- 4-8 Sketching - Isometrics
- 9- Setting up AutoCAD – The Solar System
- 10- 12 AutoCAD Window and Getting Started Assignments
- 13 – 25 – Figures #1, #5 and Trim AutoCAD Basics - Orthographics
- 25-30 – Lab Projects
- 31– 46 Tutorial Guide to AutoCAD
- 47- 57 - Colonial House Project
- 58-70 – My House Project and Presentations

By the end of this course, you will be able to:

1. **Conceptualize** and **draw** designs using orthographic and isometric views.
2. Use the necessary **literacy skills** to convey design ideas to your teacher and classmates.
3. Be able to **communicate** your design ideas using AutoCAD vocabulary and terminology.
5. Apply the Design Process to an Architectural Design problem.
6. Be able to display proficiency in the basic elements of AutoCAD software.
7. Troubleshoot 2-D sketches using inquiry and discovery

Responsibilities

1. Be on time – if you are late for class, it will be noted and reported.
2. Respect – you must be respectful at all times.

Respect means:

No swearing or inappropriate language

No talking while another person is talking

No interrupting another person while they are working

No heads on desks

Raise your hand for help or questions

3. Have your assignments completed on time – ***NO EXCUSES!!***

What to bring to Remote Class

1. Pencils - for your FANTASTIC sketches!
2. A Flash Drive – if you “lose” your work, you will have to re-do it.
3. A great attitude!

Grading

Projects are graded on a point system. Some are worth 10 points; some are worth 100 points, depending on the importance and amount of material covered in the assignment.

Projects – 85%

Class Participation: 15%

Projects

Digital projects must use the filename formula ***nameINL_CL_period***, where “name” is the project name (e.g. lego), INL is your initials, CL is the course abbreviation (e.g. PE), and period is the period of the day. ***THERE WILL BE AN AUTOMATIC PENALTY IF THIS IS NOT DONE CORRECTLY!***

Work that is missing – ***NO MATTER THE REASON*** – must be made up. Students should purchase a ***FLASH DRIVE*** (about \$10 at Staples, Walmart, Office Max) to use as a back-up for digital files that are created in class. If your work is missing due to BPS network problems, ***that is not an excuse for not turning it in. YOU SHOULD BACK UP ALL OF YOUR FILES ONTO A FLASH DRIVE BEFORE LEAVING CLASS!!***

Missed **quizzes** and **tests** must be made up within two days of returning to school, unless there are extenuating circumstances and approval of Mr. Brunelle.

I have read and understand the course expectations:

Student

Parent/Guardian

Save this in your One Drive AutoCAD folder