

COURSE: INTRO TO AUTO-CAD

Grade Level: 9-12

MAIN/ GENERAL TOPIC	SUB-TOPIC:	ESSENTIAL QUESTIONS:	WHAT THE STUDENTS WILL KNOW:	WHAT THE STUDENT WILL BE ABLE TO DO:	Assessments:	WHEN STUDENT DOES IT:
Basic drawing environment Using modification tools	Drawing setup and organization AutoCAD display and selection operations Modify commands Geometric constructions Add text to drawings Object grips and properties	What is the basis of your first drawing What basic modifications will help you master introductory drawings	Basic drawing environment and how to use it Detail the setup process for drawing creation Maximize the use of display tools to make drawing manipulation easier Modify commands to remove, change, or create entities Create geometric shapes to form a foundation of design Create and add text to your drawings	Identify areas of AutoCAD screen interface Set up drawings and types of measurement units Use the display tools to make drawings manipulation easier Use break,trim,move,scale,rotate,stretch,explode,array,copy,fillet,chamfer,extend,mirror,and offset Create boundary lines using basic drawing commands Create text through both dynamic and multiline options	Develop a template Create one view drawings using absolute, relative polar, and direct methods Develop a series of problems that use modify commands with text	Sept. (SEMESTER 1) December (SEMESTER 2)
Plotting Drawings	Configuring plotting devices Move from Model space to Paper space Plot style Line weight Floating view port Insert	How is a project plotted to a hard copy in scale	Managing a plot style Plotting to scale Inserting data into paper space	Set-up Plotter manger system Move from Model to paper space Scale drawings Insert Title block and Boarder	Check scale of hard copies	December (SEMESTER 2)
Shape description and multiview projection	Identifying drawing views Drawing layouts Create View ports	How is an object described in drawings	Identify where drawing views originate Apply relationships between views How to choose appropriate views How to use model and paper space	Describe in engineering drawings basic orthographic multiview projections within an auto-cad drawing environment	Draw a series of problems using multiview projection	December (SEMESTER 2)
Sectional views	Cutting Plain Full Section Half Section Revolved Section Removed Section Types of Hatches	How does a section view help explain drawing details	Applying the need of section views to drawings Create drawings using various types of sectional views	Apply sectional views when needed to explain drawing details Apply cutting plains Use the hatch commands	Draw a series of problems using sectional views	April (SEMESTER 3)

Auxiliary Views	Line projection Applying Otrack	What is the relationship of Auxiliary views to the primary orthographic projection views	How to create auxiliary views Set up and use osnap and otrack to assist in the development of auxiliary views The relationship between orthographic views and auxiliary views	Create an auxiliary view in a primary multiview drawing	Draw a series of problems with auxiliary views on different plains	June (SEMESTER 4)
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