**CADT 105 - Descriptive Geometry**

CADT-105 will focus on developing the knowledge and skills necessary for solving problems using descriptive geometry. Students will develop line projections, true size and shape of lines or planes, and piercing points of lines and planes in space. In addition, they will develop skills in pattern development. 2-D CAD software will be used as the instructional platform. Concepts will be reinforced through hands-on activities that focus on theories discussed.


Cover course concepts through chapters 7 & 8 plus problems using any 2D software – ACAD not required.

Objectives: Auxiliary views

I. Define the concept of an auxiliary view
II. Describe and use the reference plane method to draw and auxiliary view
III. Describe and use the folding line method to draw an auxiliary view
IV. Draw round and curved surfaces in auxiliary views
V. Illustrate secondary auxiliary views
VI. Illustrate partial auxiliary views
VII. Draw enlarged auxiliary views
VIII. Describe the use of a viewing plane of auxiliary views

Objectives: Descriptive Geometry

I. Explain the reasons for using the descriptive geometry method of projection
II. List the steps used to solve descriptive geometry problems
III. Demonstrate proficiency in the use of systems and notations
IV. Define the term *fold line*
V. Demonstrate proficiency at using fold lines
VI. Demonstrate proficiency in determining the position of a line in space using its bearing, slope, and grade
VII. Demonstrate proficiency in plotting the boundaries of real estate
VIII. Demonstrate proficiency in applying the concepts of cut and fill
IX. Demonstrate proficiency in applying the concepts of strike and dip
X. Demonstrate proficiency in the use of vectors