

Course Outline – TEC-D 109

Week 1

Monday	Chapter 1 – <u>“Orthographic Projection” and “Descriptive Geometry”</u> <u>Topics:</u> Scale and Definitions <u>Assignment:</u> Problems 1 thru 5
Tuesday	Chapter 1 – <u>“Orthographic Projection” and “Descriptive Geometry”</u> <u>Assignment:</u> Problems 6, 7, 9, 10 & 11 <u>Extra Credit:</u> Problem 8
Wednesday	Chapter 2 – <u>“Points and Lines in Space”</u> <u>Topics:</u> Locating a Point in Space, Line, and Locating a Line in Space <u>Assignment:</u> Problems 1 & 2
Thursday	Chapter 2 – <u>“Points and Lines in Space”</u> <u>Assignment:</u> Problems 3 thru 5
Friday	Chapter 3 – <u>“Auxiliary Views”</u> <u>Topics:</u> Primary and Secondary Auxiliary Views, and Fundamental Views <u>Assignment:</u> Problems 1 & 3 <u>Extra Credit:</u> Problem 2

Week 2

Monday	Chapter 3 – <u>“Auxiliary Views”</u> <u>Assignment:</u> Problems 5 & 6 <u>Extra Credit:</u> Problem 4
Tuesday	Chapter 4 – <u>“Lines”</u> <u>Topics:</u> Types of Lines, True Length of a Line, Bearing of a Line, Slope of a Line, Point View of a Line, and Locating a Line. <u>Assignment:</u> Problems 1 thru 5
Wednesday	Chapter 4 – <u>“Lines”</u> <u>Assignment:</u> Problems 6 thru 10 <u>Extra Credit:</u> Problem 11
Thursday	Chapter 5 – <u>“Line Characteristics”</u> <u>Topics:</u> Locate a Point on a Line, Intersecting Lines, Visibility of a Point and a Line, Visibility of Lines, Parallel Lines, Perpendicular Lines, and Shortest Distances between a Line, Point, and Skewed Lines. <u>Assignment:</u> Problems 1 thru 5 <u>Extra Credit:</u> Problem 6
Friday	Chapter 5 – <u>“Line Characteristics”</u> <u>Assignment:</u> Problems 7 thru 13 <u>Extra Credit:</u> Problem 14

Week 3

Monday	Chapter 6 – <i>“Planes”</i> <u>Topics:</u> Formation of Planes, Plane Types, Edge View of a Plane, Locating a True Length Line in the Plane, Bearing (Strike) of the Plane, Slope (Dip) of the Plane, Dip Direction of the Plane, and True Shape of the Plane <u>Assignment:</u> Problems 1 thru 5
Tuesday	Chapter 6 – <i>“Planes”</i> <u>Assignment:</u> Problems 6 thru 10 <u>Extra Credit:</u> Problems 11 & 12
Wednesday	Chapter 7 – <i>“Plane Relationships”</i> <u>Topics:</u> Shortest Distance from a Point to a Plane, True Angle between two Planes, The angle between a line and plane, and Plane method for solving problems with points and lines. <u>Assignment:</u> Problems 1 thru 6
Thursday	Chapter 7 – <i>“Plane Relationships”</i> <u>Assignment:</u> Problems 7 thru 13 <u>Extra Credit:</u> Problems 14 & 15
Friday	<i>“LAB”</i>

Week 4

Monday	Chapter 8 – <i>“Piercing Points and Intersections of Planes”</i> <u>Topics:</u> Piercing points of a line and a Plane, The intersection of two planes, and Intersection of a Three-Dimensional object. <u>Assignment:</u> Problems 1 thru 3
Tuesday	Chapter 8 – <i>“Piercing Points and Intersections of Planes”</i> <u>Assignment:</u> Problems 4 thru 6 <u>Extra Credit:</u> Problems 7 thru 9
Wednesday	Chapter 9 – <i>“Revolution”</i> <u>Topics:</u> The Principles of Revolution, The True length of a Line, The True Shape of a Plane, The Angle between a line and plane, The Angle between two planes. <u>Assignment:</u> TBD
Thursday	<i>“LAB”</i>
Friday	<i>“LAB”</i>