Course Outline
TEC D 107 – Technical Drawing
Olympic College – Bremerton, WA

WEEK 1

DAY 1
Chapter 1 – “Introduction to Contemporary Drafting”
  ~ Syllabus and Course Outline, Scoring
  ~ Scoring Sheet, Portfolio, Title Block

Exercises: In-Class Exercise 1 – Equipment Exercise
Assignment: 1) Problem: Fig 2-38 Divide Title Block into 4 squares
  Draw the 4 pictures on the right side

DAY 2
Chapter 2 – “Drafting Equipment and Supplies”
Chapter 3 – “Sketching and Lettering”
  ~ Drafting Tool’s - Use and Care
  ~ Free Hand Sketching, Lettering

Exercises: In-Class Exercise 2 – Lettering and Sketching Exercise Handout
Assignment: 2) Problems: A - Divide Title Block into 2 squares, draw Figs 3-7 & 3-8
  3) Problems: B - Divide Title Block into 2 squares, draw Figs 3-9 & 3-10
Extra Credit: Hand letter “Required Materials” on syllabus, worth 10 pts

DAY 3
Chapter 2 – “Drafting Equipment”
  ~ How to read and use the Scales

Exercises: In-Class Exercise 3 – Scales and Matching Angles
Assignment: 4) Problems: Fig 7-29 (# 3) Draw at 1 ½” scale
  5) Problems: Fig 7-29 (# 6) Draw at 1 ½” scale

DAY 4
Chapter 6 – “Drafting Conventions and Formats”
Chapter 9 – “Dimensioning Conventions”

Exercises: In-Class Exercise 4 – Geometric Constructions A
Assignment: 6) Problems: Fig 7-29 (# 8) Draw at 1 ½” scale
  7) Problems: Fig 7-32 (# 1) Draw at 1” scale

DAY 5
“LAB-DAY”
WEEK 2

DAY 1

Chapter 7 – “Geometric Constructions”

Exercises: In-Class Exercise 5 – Geometric Constructions B
Assignment: 8) Problems: Fig 7-29 (# 4) Draw at 3/4 scale
9) Problems: Fig 7-5 (# 4) Draw at 20 ENG scale

DAY 2

Chapter 8 – “Multi-view Drawings”
Chapter 15 – “Pictorial Drawings”

Exercises: In-Class Exercise 6 – Orthographic Exercise
Exercises: In-Class Exercise 7 – Concentric Circle Ellipse Exercise
Assignment: 10 & 11) Problems: Fig 8-50 (right side drawing), Fig 8-51, Fig 8-56, Fig 8-60, Fig 8-63, Fig 12-50
Pick any 2 of the 6 DWG listed

DAY 3

Chapter 11 – “Sectional Views”

Exercises: In-Class Exercise 8 – Sectional Views Exercise
Assignment: 12 & 13) Problems: Fig 11-26 (# 4), Fig 8-77, Fig 11-29 (lower left), Fig 8-58
Pick any 2 of the 4 DWG listed

DAY 4

Chapter 12 – “Auxiliary Views”

Exercises: In-Class Exercise 9 – Isometric Circles Exercise
Assignment: 14) Problem: Fig 12-58 (Top, Front, & Auxiliary Views)
15) Problem: Fig 12-38 (Top, Front, & Auxiliary Views)

DAY 5

LAB DAY

YOU SHOULD HAVE AT LEAST A TOTAL OF 150 PTS AT THIS TIME TO HAVE A 2.5 AVG BEFORE YOU GO ON BREAK.
WEEK 3  Descriptive Geometry (TEC D 109)

DAY 1  Chapter 2 – “Points and Lines in Space”
  Topics: Locating a Point in Space, Line, and Locating a Line in Space

Assignment: Problems 1 thru 5; Draw any 3 problems in Chapter 2 group

DAY 2  Chapter 3 – “Auxiliary Views”
  Topics: Primary and Secondary Auxiliary Views, and Fundamental Views

Assignment: Problems 1 thru 5; Draw any 3 problems in Chapter 3 group
Extra Credit: Problem 4

DAY 3  Chapter 4 – “Lines”

Assignment: Problems 1 thru 10; Draw any 5 problems in Chapter 4 group
Extra Credit: Problem 11

DAY 4  Chapter 5 – “Line Characteristics”

Assignment: Problems 1 thru 12; Draw any 6 problems in Chapter 5 group
Extra Credit: Problems 13 & 14

DAY 5  “LAB-DAY”
WEEK 4

DAY 1

Chapter 6 – “Planes”

Topics: 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

Assignment: Problems 1 thru 10; Draw any 5 problems in Chapter 6 group
Extra Credit: Problems 11 & 12

DAY 2

Chapter 7 – “Plane Relationships”

Topics: 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.

Assignment: Problems 1 thru 10; Draw any 5 problems in Chapter 7 group
Extra Credit: Problems 11 thru 15

DAY 3

Chapter 8 – “Piercing Points and Intersections of Planes”

Topics: Piercing points of a line and a Plane, The intersection of two planes, and Intersection of a Three-Dimensional object.

Assignment: Problems 1 thru 6; Draw any 3 problems in Chapter 8 group
Extra Credit: Problems 7 thru 9

DAY 4

LAB DAY – Setup Manual Drafting Portfolio

DAY 5

LAB DAY