DRAFTING 1 COURSE OUTLINE & STANDARDS

WEEK 1
Class Orientation
(Standard A:1-2)
Student/Teacher Expectation
School Safety
Lab Set Up and Procedures
Drafting Overview

Week 2
Freehand Sketching – Chapter 2
(Standard B:1-3)
Sketch straight lines
Sketch arcs and circles
Lettering – Chapter 5
Single Stroke Gothic Lettering
(Standard B:6)

Week 3
Reading a Scale
(Standard C:2)
Alphabet of Lines
Geometric Construction – Chapter 6
(Standard D:1-7)
Bisect lines, arcs, and angles
Construct regular polygons

Week 4-8
AutoCAD Software
(Standard K:1-6 L:1-5)
Single View Drawings – Chapter 4
(Standard C:1-9)
Draw straight lines, arcs, circles, and angles.
Title Blocks
Dimensioning – Chapter 10
(Standard E: 1-7)
Set and Control Dimension Styles
Dimensions using aligned and unidirectional dimensions.

Week 9
Views of Objects – Chapter 7
(Standard F:1-9)
Identify Top, Front, Right Side Projection Box

Week 10-13
Orthographic Projections – Chapter 7
(Standard F: 1-9)
Third angle projections
3 view drawings
2 view drawings
Dimensioning
(Standard E: 1-7)
Centering Formulas
C & D Size Title Blocks

Week 14-17
Inventor Software – 3D Modeling
(Standard M:1-2)
Create 2D Sketches
Extrude 3D model
Create Parts
Create Drawing Files from Parts
Dimension Drawings
Isometric Pictorial

Week 18
Exam Review
Exam
DRAFTING 2 COURSE OUTLINE & STANDARDS

WEEK 1-2
Class Orientation
(Standard A:1-2)
Student/Teacher Expectation
School Safety
Lab Set Up and Procedures
Load Student Work Folders
Review AutoCAD
(Standard L: 1-5)
Discuss Updates to software
Single View Drawings

Week 3-4
Section Views- Chapter 11
(Standard H: 1-4)
Dimensioning Leaders for Cutting Planes
(Standard E: 1-7)
Full Sections
Half Sections
Offset Sections

Week 5
Life Comes at You Fast
Resume
Portfolio
Employability Skills
Benefits/HR/Cost of Living

Week 6
Auxiliary Views – Chapter 12
(Standard I: 1-3)
Scale Model of Parts

Week 7-9
Pictorial Views
(Standard G: 1-3)
Cavalier Drawings
Oblique Drawings
Cabinet Drawings
Isometric Drawings

Week 10
Threads and Fasteners – Chapter 15
(Standard J: 1-4)
Nuts and Bolts
(Standard J: 1-4)

Week 11-15
Working Detail Drawings- Chapter 16
AutoCAD
(Standard J: 1-8)
Sections, Orthographics and Dimensioning

Week 16
Design Project
(Standard M: 1-3)
ID Design Project
3D Printing

Week 17
Semester Review

Week 18
Exam Review
Exam
WEEK 1-2
Class Orientation
(Standard A: 1-2)
Student/Teacher Expectation
School Safety
Lab Set Up and Procedures
Load Student Work Folders
Review AutoCAD
(Standard L: 1-5)
Discuss Updates to software

Week 3-6
GIS Mapping/Civil –
(Standard E: 16)
Blocks
(Standard G)
Aerial Photography
State Plane Coordinates System
Building Footprints

Week 7
Architectural Design
Chapter 1
(Standard E: 1-18)
Bed & Bath – Chapter 7
(Standard E)
Minimum Square Footage
Bath Standards
Room/Closet placement

Week 8
Doors & Windows- Chapter 13-14
Door and window Standards
Door and Window Schedules
Plumbing
Electrical

Week 9
Service Areas – Chapter 9
(Standard E)
Kitchen Layouts
Laundry
Garage

Week 10
Foundation Plan – Chapter 11
(Standard E)
Foundation plan
Foundation Details
Beams

Week 11
Plot Plan
(Standard E)
Lot
Setbacks
Bearing & Distances

Week 12-17
House Plan Project
(Standard E: 1-18, H: 1-2)
Design and Create House Plan
Plot and Binding Multiple Sheets

Week 17
Exam Review

Week 18
Exam Review
Exam