

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

DRAFTING 3 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

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