

# 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**