

The following learning targets represent the major concepts studied and assessed in this course. Updated 2022 - 2023

## **Semester 1**

### **Unit 1: History of Architectural Drafting:**

- Conducting Research and Compare Data
- Architectural History
- Lego Architecture

### **Unit 2: Hand Sketching and Lettering:**

- Hand Sketching
- Scaling Drawings
- Perspective Drawing
- Engineering Lettering Techniques

### **Unit 3: Autodesk AutoCAD (Computer Aided Software):**

- Introduction to AutoCAD Drafting

### **Unit 4: Autodesk Revit:**

- House Creations in Revit Computer Aided Drafting Software

## **Semester 2**

### **Unit 5: Design Elements and Building Codes:**

- Past and Present Building Code Specifications
- Design in "Today's Society"

### **Unit 6: Design Projects:**

- Students select various Design Projects to create
- Working on Deadlines
- Working in Groups

### **Semester Final Project:**

- A Large Project incorporating all the year learning goals

## **Unit 9: 3D Printing:**

- Creating Solutions to Problems
- 3D Printing using Inventor

## **Unit 10: Working Drawings:**

- Explosion Views
- Mechanical Assemblies
- Complete Working Drawings
- Design Challenges