

The following learning targets represent the major concepts studied and assessed in this course.

## **Semester 1**

### **Unit 1: Overview of Civil Engineering and Architecture:**

- History of Civil Engineering and Architecture
- Design Principles and Elements
- Architectural Styles

### **Unit 2: Residential Design:**

- Wood Frame Systems
- Roof Systems
- Shed Design
- Cost & Efficiency

## **Semester 2**

### **Unit 3: Commercial Applications:**

- Land Use and Development Regulations
- Commercial Wall Systems
- Structural Efficiency
- Commercial Floor Systems
- Differential Leveling

### **Unit 4: Commercial Building Design:**

- Building Design Problem
- Team Building
- Property Description