Course Description

Studies materials used in construction of buildings, covering foundations to structural framing systems. Includes appropriate use of materials for various construction types. Lecture 3 hours per week.

General Course Purpose

Develop an understanding of the elements of building structures of various materials and types and their methods of assembly. Recognize the unique value of materials and appropriate use in structures.

Course Prerequisites/Co-requisites

None

Course Objectives

Upon completion of the course, the student will be able to:

- develop a knowledge of basic building materials and details of use
- develop an understanding of building structural systems
- understand precautions necessary with given materials

Major Topics to be Included

a. Introduction to foundation types and materials
b. Introduction to the materials and framing systems of:
   1. Wood
   2. Steel
   3. Concrete