CM 2210: Introduction to Structures

3 Credit Hours

Prerequisite: (PHYS 1111 and PHYS 1111L) or (PHYS 2211 and PHYS 2211L)

The study of basic structural design and analysis. Primary aim of this course is to develop and present structural concepts, introduce structural theory, provide a sound understanding of statics and strength of materials to establish a basis for understanding structural principles as it relates to building components.

CM 3000: Computer Applications in Construction

3 Credit Hours

Prerequisite: CM 2000

An introduction to microcomputers and commercial software. Students learn DOS and Windows manipulations, spreadsheets, word processing, visualization, and presentation software by actively using tutorials and help screens in a structured laboratory setting. Scheduling and estimating software are introduced.

CM 3040: Building Information Modeling I

3 Credit Hours

Prerequisite: (CM 2000 and CM 3000) or (EDG 2160 and CE 2003)

A course on study of building information modeling for pre-construction applications. The course will enable the students to develop and modify building information models. It includes integration of estimates and schedules with building information models. It also prepares the students to identify conflicts caused by architectural, structural, mechanical, plumbing, and electrical systems during pre-construction stages.

CM 3110: Construction Materials and Methods

3 Credit Hours

Prerequisite: CM 2000 or EDG 2160 or EDG 1211

A study of materials, techniques, and methods used in residential and light construction. Foundations, wood frame and masonry structural systems, interior and exterior finishes, residential electrical, plumbing, and mechanical systems are included. Also included are residential building code requirements.