

CONSTRUCTION MANAGEMENT (CM)

CM-601 Construction Management I - (3 Credits)

Covers construction project management from conception to completion. Students explore feasibility studies, site selection, planning, programming, design coordination and contracting procedures of actual construction. Emphasis is on contractor operations, project administration, job planning, CPM scheduling and subcontract coordination.

CM-602 Construction Management II: Practical Construction Management - (3 Credits)

Covers construction project management from conception to completion. Students explore feasibility studies, site selection, planning, programming, design coordination and contracting procedures of actual construction. Emphasis is on contractor operations, project administration, job planning, CPM scheduling and subcontract coordination. CM-602 applies procedures to an actual construction project.

CM-621 Project Controls I - (3 Credits)

Starting with the development of measured program or project objectives, this course, delivered over the Fall and Spring Semesters consecutively provides the complete step process and project tested examples and templates of how to establish and maintain an effective cost and schedule management system from project inception through to completion to ensure that project requirements are addressed. The Fall semester will focus on Pre-Project and Pre-Construction project controls, up to the point of issuing bids for construction work.

CM-622 Project Controls II Management II - (3 Credits)

CM-622 Project Controls II Starting with the development of measured program or project objectives, this course, delivered over the Fall and Spring Semesters consecutively provides the complete step process and project tested examples and templates of how to establish and maintain an effective cost and schedule management system from project inception through to completion to ensure that project requirements are addressed. The Spring semester will start with the award process for construction work, and focus on all aspects of Project Controls during execution, completion and start up.

CM-640 Construction Safety Management - (3 Credits)

An advanced comprehensive approach to the management of construction site safety. Federal and state requirements are reviewed, and New York City rules and regulations, building codes and fire department requirements and local laws pertaining to site safety are covered in detail. Topics related to establishing and implementing a site-safety program include: pre-bidding considerations, planning and scheduling, personnel training, orientation, and safety audits. Students prepare a case study Site Safety Plan for a construction site.

CM-651B Architecture of New York City - (3 Credits)

New York City is a virtual storehouse of American architecture. The stock of buildings includes examples of nearly every style of architecture from colonial to postmodern. This course reviews the various historical eras of architecture in New York City and analyzes how they were affected by construction technology and social and economic forces. Lectures present the stylistic groupings of architecture and are supplemented by visits to the unique historic districts and architectural sites of the city.

CM-652 Construction Technology - (3 Credits)

The course traces the history of construction technologies through architecture from prehistory to the present day. There is an emphasis on the role of technology in shaping architecture as well as an examination of the cultural forces that underlie the built environment. The course will relate history to the development of various building technologies and how these technologies influenced design.

CM-661 Building Codes And Zoning - (3 Credits)

This is a study of zoning and building code requirements. Special emphasis is placed on the life safety and accessibility sections of the building code and roles of building departments and their authority. The approval and permit process is discussed as it relates to various types of alterations and building structures.

CM-662 Restoration & Renovation - (3 Credits)

This course consists of a series of lectures and readings to enable students to assess and restore property damage and to recognize and appreciate the techniques necessary to rehabilitate and renovate old structures. The lectures are designed in the chronological order employed by an architect, construction manager and/or general contractor in the restoration and renovation of historic buildings. This course concentrates on the construction methods, tools and materials necessary to restore the style and grace required to protect our housing stock and American heritage.