CONSTRUCTION MANAGEMENT (CM)

CM 250 Contract Documents 3 Hours
Introduction to construction documents including drawings, specifications, contracts, requests for information, change orders, bid packages, addenda, and transmittals. In addition, techniques for reading engineering and shop drawings will be introduced.
Prerequisite(s): (MATH 116 with a minimum grade of C or MATH 116E with a minimum grade of C or MA 116C with a minimum grade of C) or (MATH 117 or MA 117C) or MATH 118 or MATH 119 or MATH 127 or MATH 121 or MATH 136 or MATH 137 or MATH 206 or MATH 237 or MATH 240 or MATH 275 or MATH 304 or MATH 305 or MATH 306
Recent Term(s) Offered: None

CM 261 Construction Methods and Materials 3 Hours
Survey of the basic methods and materials used for light commercial and residential construction applications. Addresses general requirements and site work, along with primary materials and techniques of regional construction practices.
Recent Term(s) Offered: winter 2022; spring 2022; summer 2022; fall 2022; spring 2023; fall 2023; spring 2024; summer 2024; fall 2024

CM 262 Construction Laboratory 1 Hour
The laboratory to accompany CM 261. Hands-on experience with basic construction methods and materials used in light commercial and residential construction, including framing, concrete, masonry, and miscellaneous metals.
Prerequisite(s): MATH 117 or MATH 136 or MATH 137
Recent Term(s) Offered: spring 2022; fall 2022

CM 282 Building Structures 3 Hours
Survey of concepts, knowledge, and methods of statics and strength of materials with emphasis on factors that influence the development of architectural space and form. Includes qualitative and quantitative solution methods, focusing on application versus theoretical principles.
Prerequisite(s): MATH 117 or MA 117C or MATH 118
Recent Term(s) Offered: spring 2022; fall 2022; spring 2023; fall 2023; spring 2024; fall 2024

CM 346 Applied Soil Mechanics and Foundations 3 Hours
An applied course in soil mechanics and foundations, including soil composition and classification, soil compaction and site work, lateral earth pressures and retaining walls, and an introduction to foundation design and construction including both deep and shallow foundations. Demonstrations of commonly used laboratory tests are also included. Note: Permission of instructor may be required.
Prerequisite(s): CM 337
Restriction(s): Students with a semester level of Freshman or Sophomore may **not** enroll.
Recent Term(s) Offered: None

CM 363 Construction Estimating and Bidding 3 Hours
Methods and procedures for estimating and bidding construction projects, including extracting quality take-offs from drawings, classifying work in accordance with specifications, compiling and pricing estimates, preparing bids, and computer applications. Note: Permission of instructor may be required.
Prerequisite(s): (CM 250 or CE 303)
Recent Term(s) Offered: winter 2022; summer 2022; fall 2022; summer 2023; fall 2023; summer 2024; fall 2024

CM 462 Construction Scheduling 3 Hours
Various components of construction project scheduling including work breakdown structures, activity duration estimates, scheduling logic, precedence networking, Gantt charts, CPM and PERT techniques, resource scheduling, schedule updating and reduction, and computer applications. Note: Permission of instructor may be required.
Prerequisite(s): CM 363
Recent Term(s) Offered: spring 2022; spring 2023; summer 2023; spring 2024; fall 2024

CM 490 Senior Research for Construction Management 3 Hours
Students work on capstone research projects utilizing skills and knowledge from prior courses in the Construction Management program. Projects in this course will simulate real life projects encountered in industry.
Prerequisite(s): CM 462
Recent Term(s) Offered: spring 2022; spring 2023; spring 2024