Construction Management Minor or Certificate

Facility Management

Course Descriptions

To receive a minor or certificate in facility management, you must take the following courses. Prerequisites shown in this listing apply only for FM minor or certificate students.

CMgt 2021 - Facility Programming and Design
Role of planning/design in development of built environment. Case study, evaluating user's program. Sequential design iterations for refined solution presented to client as proposal, from perspective of facility manager. Stakeholder roles. Classroom, online, studio. (2 credits; no prerequisites)

CMgt 4021 - Construction Planning and Scheduling
Concepts of project planning, scheduling, and control. Understanding project scheduling models with emphasis on the critical path method. Introduction to the techniques used in the industry utilizing commercial software on personal computers. The importance of periodic updating and analysis of schedules and of considering and understanding alternatives will be stressed. (3 credits; prerequisite CMgt 2021)

CMgt 4022 - Construction Estimating
Purposes and uses of various kinds of estimates. Techniques for performing quantity take-off, organizing bidding process, requesting and analyzing subcontractor proposals, unit pricing, utilizing published resources, and preparing systems-based estimates. Personal computer programs, spreadsheets, and custom applications to be introduced and used. The linkages between estimates, budgets, cost control systems, and historical cost records will be established. (3 credits; prerequisite CMgt 2021)

CMgt 4073 - Building Codes for Construction Managers
Building codes history, foundation, structure, and organization. Importance to the built environment throughout building life cycle: design, construction, occupancy, demolition. Code compliance and role of building code official. Interpretation and application to specific scenarios. Recognizing and correcting code deficiencies. (1 credit; prerequisite 45 semester credits completed or instructor consent.)

CMgt 4211 - Facility Cost Accounting and Finance
Lease types. Determination of total annual facility costs. Students apply accounting concepts within real property/facilities context. How to interpret financial statements and create capital/operating budgets. Asset depreciation, capital planning, expense management. Financial terminology for presenting to Corporate Suite. (2 credits; prerequisites: CMgt 2021; Acct 2050 or ABus 4101 or basic accounting/finance experience recommended) [first offering fall 2013]

CMgt 4213 - Facility Operations and Maintenance Intensive
Managing operation/maintenance of building systems and facility management department. Operation of mechanical, electrical, and plumbing systems. Critical spaces, fire/life safety systems, utilities. Maintenance for specific building systems. Technology/resources used to support building operations/maintenance. (3 credits; CMgt 2021; CMgt 4542 or 4562 (concurrent registration allowed) [first offering fall 2013]

CMgt 4215 - Facility Quality Assessment and Commissioning
How to assess condition/quality of building site, exterior/interior of facility, and building equipment. Evaluating effectiveness/efficiency of facility operations/maintenance program. What to look for during building audits. How to write professional assessment reports. How to make useful recommendations for improvements. Value/purpose of building commissioning/recommissioning. (2 credits; prerequisites: CMgt 2021; CMgt 4213; CMgt 4542 or 4562 (concurrent registration allowed) [first offering fall 2013]

CMgt 4861 - Construction Management Capstone
Concepts of project management and leadership needed to solve critical, complex and recurring problems on construction projects. Students apply core construction management coursework to industry case studies to create, solve, critically consider, and effectively articulate solutions. (2 credits; prerequisites: CMgt 4021 and 4022)