Master of Construction Management

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Courses

Visit online course listings to view semester offerings for T64 CNST (https://courses.wustl.edu/CourseInfo.aspx?sch=T&dept=T64&crslvl=5:8).

T64 CNST 523A Construction Cost Estimating
Construction cost estimating explores the application of cost estimating principles and estimating within a project management framework in conjunction with scope definition, quality control, planning and scheduling, risk management and loss prevention techniques, local conditions, information and communication, and working relations with stakeholders. Using a single building project, the course introduces the application of basic quantity surveying and estimating principles using a methodical approach with suggested check lists and techniques for arriving at a reliable cost estimate including direct, indirect, and contingency costs and profits. Student’s estimating efforts culminate with a competitive bid day scenario. Prerequisite: T64 573 or permission of instructor.
Credit 3 units.

T64 CNST 523B Master of Construction Management - M.CM MAcH Capstone Project Phase 1
This capstone course allows MCM/MArch joint-degree program students to apply constructability principles to their MArch degree projects (A46 ARCH 616) and to successfully demonstrate how they have applied those principles. Constructability principles include analysis of the construction methods and procedures, project cost, time, value, quality, and safety. Phase 1 is to be taken simultaneously with A46 ARCH 616 Degree Project. Phase 1 students will develop a constructability review, analysis, and plan for their individual project. Prerequisites: Admission to the MCM/MArch joint-degree program, T64 573, T64 523A, and T64 574.
Credit 1 unit.

T64 CNST 523C Master of Construction Management - M.CM MAcH Capstone Project Phase 2
This capstone course allows MCM/MArch joint-degree program students to apply constructability principles to their MArch degree projects (A46 ARCH 616) and to successfully demonstrate how they have applied those principles. Constructability principles include analysis of the construction methods and procedures, project cost, time, value, quality, and safety. Phase 2 is to be taken after completing A46 ARCH 616 Degree Project. Phase 2 students will execute the constructability plan developed in Phase 1 and prepare and present the deliverables. Pre/Corequisite: T64 581A.
Credit 2 units.

T64 CNST 523D Heavy Civil Construction Management
This course provides a broad perspective of the means, methods, and procedures associated with managing civil engineering and heavy civil construction projects. Topics include strategic bidding and estimating, heavy equipment, marine construction heavy civil operations and bridge building. Integration of scheduling, estimating, and construction contracts with a project based approach. Prerequisite: T64 573 or permission of instructor.
Credit 3 units.

T64 CNST 572 Legal Aspects of Construction
A survey of the legal problems of the construction manager, including but not limited to liability in the areas of contracts, agency, torts, insurance, bad judgment and oversight.
Credit 3 units.

T64 CNST 573 Fundamentals in Construction Management
In this course, students will be exposed to the overall construction process from initial concept through startup of the completed facility. The focus is to provide familiarization of the construction and contracting process and potential involvements by construction managers in the planning, design, construction, and post construction phases. Additional topics are introduced to provide a foundation which will prepare students for future construction management coursework. Case studies and industry examples are used throughout the course to authenticate the lectures and assignments.
Credit 3 units.