

Graduate Certificate in Construction Management

The Graduate Certificate in Construction Management is a 15-unit program designed for working professionals. Students will be prepared for every aspect of leading a construction project or organization. Created for any professional of the built environment, our curriculum incorporates traditional themes like cost, time, risk and quality management with multidisciplinary topics such as business, finance, ethics and law. Lecture and lab-based education provides students with an environment for practical application utilizing best practices that address current issues and developments in the industry.

Graduate Certificate: 15 units, 10-15 months to complete

Email: sever@wustl.edu
Website: <https://sever.wustl.edu/degree-programs/construction/index.html>

Faculty

Program Director

Steve Bannes

Director of Graduate Studies, Construction Management
Professor of Practice
MS, Education, Southwest Baptist University
BS, Construction Engineering & Management, Southern Illinois University Edwardsville

For a list of our program faculty (https://sever.wustl.edu/faculty/#construction_management), please visit our website.

Requirements

Graduate Certificate in Construction Management

In order to earn the certificate, all courses must be passed with a C- or higher. In addition, a student must have a cumulative grade-point average of at least 2.70 over all courses applied toward the certificate.

Code	Title	Units
Required: 15 units		
CNST 523A	Construction Cost Estimating	3
CNST 572	Legal Aspects of Construction	3
CNST 573	Fundamentals in Construction Management	3
CNST 574C	Construction Project Planning and Scheduling	3
ETEM 587	Communication Excellence for Influential Leadership	3

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 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.

T64 CNST 574C Construction Project Planning and Scheduling

Project planning and scheduling process utilizing current techniques including critical path analysis for effective and logical scheduling of construction projects. Identification of project activities and their relationships; schedule development, analysis, and updating; relationship of project costs and resources to the schedule; legal implications; effective communication of schedule information; development of procedures to monitor actual field progress; computer application in project scheduling. Prereqs: T64 CNST 573 or permission of instructor.
Credit 3 units.

T55 ETEM 587 Communication Excellence for Influential Leadership

Exceptional communicators become extraordinary leaders. This course will guide students to learn to exceptionally communicate their message by applying refined nuances that inspire and transform those with whom they converse. Through a proven communicative process, students will acquire skills necessary to differentiate them as leaders. Students will learn how to communicate across a variety of settings using strategies that result in clear, vivid, and engaging exchanges. Students will practice: storytelling; creating and using clear visuals; engaging listeners; demonstrating passion when speaking; responding to questions with clarity and brevity, and, using their distinctive voice

as a leadership asset. Each student will learn how to assess his or her own communication capabilities, adjust to different listeners, and how to evaluate speaker effectiveness and provide valuable feedback to others. Video recordings will be used to demonstrate incremental communicative changes throughout the course, and to show how these strategies bring about outstanding leadership.
Credit 3 units.
