

# CONSTRUCTION MANAGEMENT (M.S.)

## Overview

The Master of Science in Construction Management provides students with both the academic and applied analysis, knowledge, and skills necessary for success to compete in the global construction marketplace. The program provides the research-based expertise necessary to solve complex problems in the management of multimillion and billion-dollar construction projects, and aims to develop competencies essential for success and leadership through two levels of course curriculum. The curriculum provides a challenging framework of learning opportunities that blend the best of theoretical and applied analysis, foster experiential learning, and build strong connections to the industry.

## CIP Code

52.2001 - Construction Management, General.

You can use the CIP code to learn more about career paths associated with this field of study and, for international students, possible post-graduation visa extensions. Learn more about CIP codes and other information resources.

## Admissions

Admission to the Master of Science in Construction Management is highly selective. Requirements include superior performance in attaining the bachelor's degree from an accredited institution. Successful candidates must demonstrate strong writing skills with the ability to effectively communicate concepts and ideas subtly and succinctly. Basic verbal, quantitative, and communications skills are assessed prior to matriculation, and any deficiencies corrected prior to beginning the program's core courses. A GMAT/GRE is not required but may be submitted by students for consideration towards admissions. The committee also considers the nature and extent of previous work with preference given to those possessing a minimum of two or more years of professional experience.

## Requirements Curriculum

Course	Title	Credits
<b>Core Courses</b>		
REAL 5051	Advanced Construction Contracts, Claims, and Dispute Resolution	3
REAL 6051	Advanced Construction Methods and Materials	3
REAL 5056	Construction Scheduling and Impact Analysis	1.5
REAL 5054	Construction Cost Estimating and Bidding Strategies	1.5
REAL 5052	Construction Financial Management	1.5
REAL 5014	Negotiation	1.5
REAL 5058	Pre-Construction Project Planning and Development	3
REAL 5060	Construction Project Delivery	3

<b>Elective Courses</b>	<b>9</b>	
Select 9 credits from the list below.		
<b>Capstone</b>		
REAL 6300	Applied Project	3
<b>Total Credits</b>	<b>30</b>	

## Construction Management Electives

Courses in this group have the CONM attribute.

Course	Title	Credits
REAL 5002	Real Estate Finance	3
REAL 5104	The Real Estate Development Process	3
REAL 6001	Real Estate Financial Modeling	1.5
REAL 6004	Adaptive Reuse and Sustainability	1.5
REAL 6006	Development Project Leadership, Management and Communications	1.5
REAL 6008	Affordable Housing	1.5
REAL 6009	Commercial Leasing	1.5
REAL 6010	Development Project Finance	1.5
REAL 6011	Building Systems, Operations, and Maintenance	1.5
REAL 6013	Real Estate Management	3
REAL 6014	Land Use Law	1.5
REAL 6016	Real Estate Entrepreneurship Business Planning	1.5
REAL 6021	Special Topics in Construction	1.5
REAL 6022	Special Topics in Real Estate	1.5

## About the Curriculum

### Core

The 18-credit core curriculum is designed to give students an in-depth mastery of the academic disciplines and applied functional areas necessary to every construction and real estate project professional's success. The core leaves students with essential analysis, critical thinking and decision-making skills while creating a common student experience that fosters community. Students are required to complete all 18 core credits. The core requirements of the Master of Science in Construction Management are designed to ensure that every graduate has a grasp of the most important elements of construction project planning and management, contracts, methods and materials, estimating, scheduling, financial and cost management, risk assessment, risk management, quality control, communication, leadership, ethics, and negotiation while the electives allow each student to pursue a specific subject area.

### Electives

The 9-credit elective course requirement offers students the opportunity to immerse themselves in specialized topics of their choice. Students may assemble their own elective sequences or select the courses that are part of the Advanced Certificate in Real Estate Management.

### Capstone

The 3-credit capstone is the culmination of all the knowledge and skills acquired throughout the program. Students must be able to assimilate all that they have learned in the core courses and apply it within the context of a real-world setting. Subject to adviser pre-approval, students

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undertake an Applied Project (REAL 6300) under the direction of a faculty supervisor, that upon completion demonstrates professional-level mastery of the subject matter involved.