

CERTIFICATE IN CONSTRUCTION MANAGEMENT

Overview

Growth in the construction industry is projected to outpace all other industries through 2030, creating a high demand for qualified professionals in the industry. The Certificate in Construction Management addresses the growing demand for professionals with the advanced knowledge, discipline, and skills needed to face the challenges of the construction industry and become future leaders of design and construction-related organizations worldwide. The certificate takes advantage of the culture and resources available at the School of Architecture as well as the Miami Herbert Business School and the School of Law. The Certificate in Construction Management prepares students for effective management leadership in the construction field. It provides a foundation for training in professional management of construction projects while focusing on three components that represent the functional areas of construction management:

- Management
- Project Controls
- Design and Construction Technology

Certificate requires a total of 12 credits of core courses and related electives.

Admission Requirements

To be eligible for admission, a student must hold a bachelor's degree from a regionally accredited institution in engineering, architecture, environmental / physical sciences, environmental science and policy, business, management, economics, or construction management. Other admission requirements will be consistent with those of UM Graduate School; GRE / GMAT are not required.

Curriculum Requirements

Code	Title	Credit Hours
Core Courses		
CMA 601 or CAE 762	Fundamentals of Construction Management Construction Project Management	3
CMA 640 or CAE 661 or CAE 761	Virtual Design and Construction (VDC/BIM) Computer Aided Architecture Engineering Design Building Information Modeling II	3
CMA 674 or CAE 769 or RED 699	Capstone Project Construction Management Capstone Internship Capstone: Real Estate Development and Urbanism Charrette	3
Electives (Construction Management Focus)		3
ARC 609	Architecture Design (Construction Management Focus)	
CAE 766	Forensic Engineering	
CMA 676	Interdisciplinary Design Studio/ Integrated Project Delivery	
CMA 701	Operating and Managing a Construction Organization	
CAE 669 or CMA 702	Construction Management Seminars ¹ Professional Leadership Seminar	
RED 601	Introduction to Real Estate Development and Urbanism	
MGT 621	High Performance Leadership ¹	
MGT 624	Negotiation Strategies ¹	
MGT 691	International Management ¹	
Total Credit Hours		12

¹ Students who want to apply this certificate towards the MS in Construction Management must take either of these courses to fulfill the elective requirement.

² Students who want to apply this certificate towards the MS in Construction Management must take one of these MGT courses to fulfill the elective requirement.

Goals

- To prepare students for professional leadership and lifelong learning in architecture, urbanism, and related fields.
- To preserve and develop knowledge for the profession through research and practice.
- To share knowledge locally and internationally through community service.
- To promote building and community design goals of environmental responsibility, social equity, and economic sustainability.

Learning Outcomes

- Students will demonstrate the ability to use appropriate representational media, such as traditional graphic and digital technology skills, to convey essential formal elements at each stage of the programming and design process.
- Students will acquire financial knowledge.
- Students will develop entrepreneurial skills.