

Master of Science in

# CONSTRUCTION MANAGEMENT



**CONSTRUCT  
YOUR AMAZING  
FUTURE**



With the construction industry one of the UAE's largest contributors to GDP, highly skilled construction managers are in high demand across the country. The Master of Science in Construction Management (MSCM) from American University of Sharjah (AUS), will help develop the much-needed talent required to drive the sector's growth.

The program will equip construction managers with the skills and knowledge required to advance their careers in the industry, or progress into doctoral studies in a related field. With a focus on competencies required for the sector's rapid technological advancement, those undertaking the program will become construction leaders able to harness emerging opportunities in this dynamic field, in the Middle East and beyond.

### Objectives of the MSCM program

With a MSCM from AUS, you will be able to:

be a successful professional in a specialized area of construction management

maintain a desire for research, innovation and lifelong learning

uphold the responsibilities of the construction profession

understand the unique nuances of the Middle East's construction industry

### Faculty of distinction

In undertaking the MSCM, you will work under the supervision of faculty who have received their doctoral degrees from renowned universities, including some of the best engineering institutions in North America and Europe. These faculty are recognized experts in their fields, with extensive teaching and research experience. Graduate students have the opportunity to work with faculty to publish their work in leading international engineering and scientific journals.

### Built-in flexibility

Our graduate programs are flexible, ensuring that students are able to pursue their careers alongside their graduate degree. Students can choose between a full-time schedule and a part-time schedule, with classes offered at times suitable for those in the workforce.

### Graduate assistantships and employment

AUS offers graduate students assistantships and work-study opportunities. These are awarded on a competitive basis, coming in the form of a Graduate Research Assistantship or Graduate Teaching Assistantship. This offers not only financial assistance but also hands-on experience in teaching and research helpful to students interested in pursuing a career in academia.

### Outcomes of the MSCM

Upon graduation, an AUS MSCM graduate should demonstrate the ability to:

perform research emphasizing creativity, independent learning and scientific methods in a chosen area of construction management

apply knowledge in solving problems, making decisions and managing risks

recognize the need for, and engage in, lifelong learning

communicate effectively

select and use techniques, skills and modern tools necessary for research or professional practice

attend to professional and ethical responsibilities



## Admission to the MSCM

In addition to meeting the university's general graduate admission requirements, applicants must meet specific requirements of the MSCM program. Applicants must hold a bachelor's degree in engineering, architecture or construction from an independently accredited university recognized by UAE Ministry of Education's Higher Education Affairs Division and by AUS. Degreed individuals in other fields that are closely related to the sought program field may be considered on a case-by-case basis. Students from disciplines other than civil engineering or construction may be required to take bridging course(s) at the discretion of the program committee and the program coordinator.

Applicants who do not meet the full admission requirements may be eligible for conditional admission to the program and are encouraged to check the program website for more details.

## MSCM courses: A breadth of choice

Students in the MSCM program must choose from three options: the thesis option, the project option or the course option.

To qualify for graduation with an MSCM degree, students must successfully complete a minimum of 30 credit hours consisting of required core courses, elective core courses, general elective courses, and a thesis or a professional project (for students in the thesis and project options only) with a minimum cumulative grade point average of 3.00.

### Thesis Option

Students in the thesis option must successfully complete the following requirements:

- nine credit hours of required core courses
- a minimum of six credit hours in core elective courses
- a minimum of six credit hours in elective courses (core and/or general electives)
- nine credit hours in Master's Thesis

### Project Option

Students in the project option must successfully complete the following requirements:

- nine credit hours of required core courses
- a minimum of nine credit hours in core elective courses
- a minimum of nine credit hours in elective courses (core and/or general electives)
- three credit hours in Professional Project

### Course Option

Students in the course option must successfully complete the following requirements:

- nine credit hours of required core courses
- a minimum of nine credit hours in core elective courses
- a minimum of twelve credit hours in elective courses (core and/or general electives)

## Required Courses (18/12/9 credit hours)

Program Core Courses (9 credit hours)

Students must successfully complete the following courses:

- CMT 500 Management of Construction Projects
- CMT 510 Construction Automation
- CMT 520 Advanced Construction Scheduling

## Master's Thesis/Professional Project (9/3 credit hours)

This requirement applies to students in the thesis and project options:

- CMT 698 Professional Project  
(3 credit hours—project option)
- CMT 699 Master's Thesis (9 credit hours—thesis option)

## Elective Courses

### (minimum of 12/18/21 credit hours)

Core Elective Courses (minimum of 6/9/9 credit hours)

Students in the thesis option must successfully complete a minimum of six credit hours of elective courses.

Students in the project option must successfully complete a minimum of nine credit hours of elective courses.

Students in the course option must successfully complete a minimum of nine credit hours of elective courses.

Students can select core elective courses from the following list:

- CMT 600 Cost Analysis and Control
- CMT 610 Building Information Modeling
- CMT 620 Construction Project Risk Management
- CMT 630 Construction Contracting
- CMT 640 International Construction
- CMT 650 Sustainable Infrastructure Management
- CMT 660 Sustainable Development and Construction
- CMT 665 Construction Safety Management
- CMT 670 Construction Equipment Management
- CMT 694 Special Topics in Construction Management

## General Elective Courses (maximum of 6/9/12 credit hours)

Students in the thesis option can successfully complete a maximum of six credit hours.

Students in the project option can successfully complete a maximum of nine credit hours.

Students in the course option can successfully complete a maximum of twelve credit hours.

Students can select general elective courses from the following list:

- COE 594-04 Big Data and Analytics
- CVE 520 Sustainable Construction and Methods
- CVE 572 Satellite Remote Sensing
- CVE 594-09 Sustainable Mobility: Principles and Applications
- ESM 520 Management for Engineers
- ESM 660 Legal Aspects of Engineering
- UPL 651 Negotiation Strategies





# BECAUSE TOMORROW MATTERS



CEN practices the values of this vision every day, by housing itself within one of the region's most sustainably advanced buildings.

## Sustainability is CEN's priority and focus

The AUS College of Engineering (CEN) is seeking to build a more sustainable future for its students and the global communities of which they are a part. Throughout its research, teaching and other scholarly activities, the college seeks to uphold the widely accepted vision of the global engineering community for the 21st century: to ensure the continuation of life on the planet, making the world more sustainable, secure, healthy and joyful.

CEN practices the values of this vision every day, by housing itself within one of the region's most sustainably advanced buildings. The AUS Engineering and Sciences Building has achieved the highly sought-after "2 Pearl" rating by Estidama, a sustainable development initiative of the Abu Dhabi Urban Planning Council. The rating evidences the building's highly efficient use of resources and minimization of waste. It also complements AUS' position as the first university in the MENA region to have a Sustainability Tracking, Assessment and Rating System (STARS) classification for sustainability in higher education, awarded by the Association for the Advancement of Sustainability in Higher Education (AASHE).



### DID YOU KNOW?

AUS is the MENA region's best performing university according to the Association for the Advancement of Sustainability in Higher Education (AASHE) Sustainability Tracking, Assessment and Rating System.



# BECAUSE IT MATTERS

The college is also a leader in “peace engineering,” a global effort to promote international peace and achieve the United Nation’s Sustainable Development Goals through science and technology. Peace engineering works directly towards a world where prosperity, sustainability, social equity, entrepreneurship, transparency, community voice and engagement, ethics and a culture of quality thrive.

CEN’s Dean, Dr. Sirin Tekinay, is also the Chair of the Global Engineering Deans’ Council (GEDC), and an ex-officio member of the Executive Committee of International Federation of Engineering Education Societies (IFEES), two organizations at the heart of global peace engineering efforts. The college is therefore front and center of this important initiative, and central to the engineering outcomes that will make a difference to all.

The work of CEN’s faculty and students helps progress international sustainability efforts. By advancing design and innovation in engineering that impacts many facets of sustainability, CEN is contributing to the global collaboration needed to find solutions to some of the world’s most pressing challenges: climate change, population growth and disease, among others. Our faculty and students are at the helm of sustainability-related efforts in the fields of supply chain, materials science, renewable energy, urban planning, water and environment, energy, construction, Artificial Intelligence, data science and more—all areas that will play a role in securing a sustainable tomorrow for populations across the world.

Together, we are committed to working with the global engineering community to safeguard our tomorrow, in the Middle East and beyond.

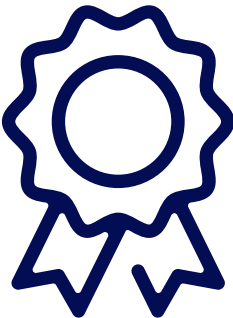


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# Reasons to choose a graduate program at the AUS College of Engineering



All graduate programs offered by the AUS College of Engineering are accredited by the Commission for Academic Accreditation of the Ministry of Education’s Higher Education Affairs Division in the United Arab Emirates. AUS is also accredited in the United States of America by the Middle States Commission on Higher Education (3624 Market Street, Philadelphia, PA 19104, USA, Tel +1 215 662 5606).



The College of Engineering boasts the very best in resources and facilities, including nearly 60 world-class laboratories.



The college offers flexible study arrangements for busy professionals, including part-time options.



AUS offers financial assistance to qualified students, including competitive full and partial graduate assistantships.



Hailing from some of the world’s leading engineering universities, College of Engineering faculty are accomplished researchers working at the cutting edge of their areas of research.



AUS has a proud tradition of multiculturalism, with a higher percentage of international students than any other university in the world (Times Higher Education, 2019).



The AUS campus features one of the finest libraries in the region, a health center and recreational programs, along with a full calendar of cultural events.



AUS is a leading university in the region, with QS ranking AUS among the top 10 universities in the Arab world for the past 5 years.



AUS is one of the world’s top young universities, with QS World University Rankings naming AUS a top 50 under 50 years university.



AUS is respected as one of the world’s leading institutions, with QS World University Rankings naming AUS among the world’s top 350 universities.

## Why AUS?

AUS was founded in 1997 by His Highness Sheikh Dr. Sultan Bin Muhammad Al Qasimi, Member of the Supreme Council of the United Arab Emirates and Ruler of Sharjah.

Sheikh Sultan articulated his vision of a distinctive institution against the backdrop of Islamic history and in the context of the aspirations and needs of contemporary society in the UAE and the Gulf region.

Firmly grounded in principles of meritocracy and with a strong reputation for academic excellence, AUS has come to represent the very best in teaching and research, accredited internationally and recognized by employers the world over for creating graduates equipped with the knowledge, skills and drive to lead in the 21st century.

AUS values learners not driven only by academic success, but by those that embrace our dynamic campus life and embody our ideals of openness, tolerance and respect. This combination of academic excellence and community spirit ensures AUS is filled with world-class faculty and students, poised to become the innovators, thinkers, contributors and leaders of tomorrow.







Find out more

[www.aus.edu/cen/mscm](http://www.aus.edu/cen/mscm)  
[ogs@aus.edu](mailto:ogs@aus.edu)

connect with us



Apply now

