

SOUTH DAKOTA



SCHOOL OF MINES
& TECHNOLOGY

SD MINES ONLINE

Master of Science in Construction Engineering and Management

Earn a top-rated engineering master's degree
no matter where you are.

The Master of Science degree in Construction Engineering & Management (MSCEM) is a flexible, user friendly, and affordable online master's program that allows participants to maintain employment while advancing their knowledge and skills. Program coursework is designed with industry input and provides students with essential technical and management skills required by professionals in the industry today.

Students can enter the program at any one of the three semesters during the year, and choose core classes and electives to match their individual interests and career goals. You can take classes face-to-face, streamed live, or watch the recorded class when it works with your schedule.

Program Overview

The Construction Engineering and Management program culminates in a Master of Science in Construction Engineering and Management (MSCEM) degree and is designed to provide programs of advanced study for candidates anticipating a managerial career in the construction industry. Flexibility is built into the program to provide an optimal educational experience for working students. Course delivery enables both online and face-to-face participation for local and distance professionals.

Accreditation

The South Dakota School of Mines and Technology is accredited by the regional Higher Learning Commission (HLC), a commission of the North Central Association of Colleges and Schools (NCA). For more information, please visit: ncahlc.org.

Tuition

The Construction Engineering and Management MS requires 33 credits. Cost for the distance program is \$623.85 per credit hour, or approximately \$21,000 for your masters degree. Other than the one time application fee of \$35, there are currently no other costs except for books. South Dakota residents are eligible for a discount to \$450.90 per credit hour.

Admission Requirements

- Completed graduate application form
- \$35 application fee
- Official transcript of prior academic work, sent directly to SD Mines by the issuing institution, showing the undergraduate degree awarded
- 1 page statement of purpose, describing your goals in the program
- 3 letters of recommendation
- Additional requirements exist for international students, including a third party foreign transcript evaluation and evidence of English proficiency.

In addition to these requirements, the following minimum bachelor's-level credits must have been completed:

- Calculus I.
- Three credit hours of probability and statistics.
- Six credit hours of natural and physical science, including at least three credit hours of chemistry or physics.

Getting Started

For more information, inquire or apply online at:
www.sdsmt.edu/DistanceEducation

*based on 2017/18 costs. See online price table for details.

Construction Engineering & Management Program Requirements & Options:

The requirements for the Master of Science in Construction Engineering and Management are as follows:

- A minimum of 33 credits, of which a minimum of 18 credits must be 600-level, or above, courses in Construction Engineering & Management (CEM).
- A thesis or final examination is not required. A project report is optional.
- A maximum of 12 credit hours may be transferred from another accredited institution.
- For SD Mines undergraduate students only: Students admitted to the “accelerated” MS program may apply up to 9 credits of SD Mines 500/600 level coursework taken as an undergraduate to their master’s degree requirements.

<http://www.sdsmt.edu/distanceCEM/>

Recommended Core Courses (15 credits)

CEM 608: Construction Contracts
CEM 610: Construction Project Management
CEM 615: Engineering & Construction Ethics
CEM 619: Construction Company Management or
CEM 620: Leading & Managing Design Orgs.
CEM 710: Advanced Construction Management

Recommended Elective Courses (18 credits)*

CEM 612: Construction Cost Estimating
CEM 613: Construction Scheduling
CEM 616: Codes and Standards
CEM 640: Construction Temporary Structures
CEM 665: Construction Equipment Management
CEM 706: Managing Sustainable Projects
CEM 715: Construction Operations
CEM 750: Environmental & Storm Water Permitting
CEM 788: Professional Practice Research
ENGM 620: Quality Management
ENGM 625: Innovation and Comm.
ENGM 640: Business Strategy
ENGM 642: Engineering Management & Labor Relations
ENGM 650: Safety Management
ENGM 661: Engineering Economics for Managers**
ENGM 663: Operations Planning
ENGM 742: Engineering Management & Labor Relations
MEM 530: Resource Industry Mergers & Acquisitions
MEM 535: Resource Industry Finance & Accounting

* An additional 3 credits must be CEM credits

** Recommended for all CEM students

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