The Master of Science degree in Construction Engineering and 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 three semesters and choose core classes and electives to match their individual interests and career goals. Class lectures are available face-to-face, streamed live, or the recorded lecture can be viewed by students anytime during the week.

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.

Tuition
The Construction Engineering and Management MS requires 30 credits. Cost for the distance program is $649.30* per credit hour, or approximately $20,000 for your master’s 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 $470.45* per credit hour.

*Based on 2021-22 costs. See online price table for details.

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.

Admission Requirements
- Completed graduate application form
- $35 application fee
- Official transcript of prior academic work, sent directly to South Dakota 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
Program Requirements

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

- A minimum of 30 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 South Dakota Mines undergraduate students only: Students admitted to the “accelerated” MS program may apply up to 9 credits of South Dakota Mines 500/600 level coursework taken as an undergraduate to their master’s degree requirements.

Recommended Core Courses (15 credits)

- CEM 608 Construction Contracts
- CEM 612 Construction Cost Estimating
- CEM 613 Construction Scheduling
- CEM 710 Performance Management & Leadership

Recommended Elective Courses (18 credits)*

- CEM 615 Engineering & Construction Ethics
- CEM 616 Codes and Standards
- CEM 619 Construction Company Management
- CEM 665 Construction Equipment Management
- CEM 706 Managing Sustainable Projects
- CEM 715 Construction Equipment Operations
- CEM 750 Environmental & Storm Water Permitting
- CEM 788 Professional Practice Research
- ENGM 620 Quality Management
- ENGM 625 Innovation and Commercialization
- 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

Contact Us for More Information

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Inquire or Apply Online at sdsmt.edu/DistanceEducation