

The Master of Science degree in Engineering Management (MSEM) 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. Students participate in classes face-to-face, streamed live, or watch recorded classes at their convenience. DVD's are available upon request.

Program Overview

Management positions in engineering fields require a unique blend of technical skills with management and leadership abilities. Our Engineering Management MS degree at SD Mines is a multi-disciplinary, applications-oriented degree drawing from fields of engineering, management and operations research. Diverse topics provide a broad view of engineering management, including economics and finance, safety and ergonomics, project management and risk assessment, and taking innovation from the workspace to the marketplace.

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 Engineering Management MS requires 30 credits. Cost for the distance program is \$643.75* 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 \$465.80* per credit hour.

**Based on 2020/21 costs. See online price table for details.*

Graduate 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
- Additional requirements exist for international students, including a third-party foreign transcript evaluation and evidence of English proficiency.

Program Admission Requirements

- A bachelor's degree from a four-year accredited institution in engineering, science or a related discipline.
- University-level mathematics through differential calculus.
- Six semester hours of natural and physical sciences which must include 3 credit hours of physics or chemistry.
- Three semester hours of probability and statistics (can be done concurrently).
- Two semester hours of engineering economics (can be done concurrently).



Program Requirements

30 Credit Hours Total

South Dakota Mines students admitted to the Accelerated MS option may apply up to 9 credits of 500/600 level courses taken as an undergraduate to both the BS and MS degrees.

Required Core Courses (12 credits)

BUSINESS/FINANCE (choose one)

ENGM 661 Engineering Economics for Managers

ENGM 640 Business Strategy

MANAGEMENT (choose one)

ENGM 642 Engineering Management and Labor Relations

IENG 566 Project Planning and Control

QUANTITATIVE METHODS (choose one)

ENGM 535 Optimization Techniques

ENGM 632 Stochastic Models in Operations Research

ENGM 745 Forecasting for Business and Technology

OPERATIONS MANAGEMENT (choose one)

ENGM 663 Operations Planning

ENGM 620 Quality Management

Recommended Elective Courses (18 credits)

ENGM 615 Nonparametric Statistics

ENGM 621 Statistical Process Control

ENGM 625 Innovation and Commercialization

ENGM 650 Safety Management

ENGM 655 Ergonomics for Managers

ENGM 675 Legal and Ethical Issues in Engineering Management

ENGM 692 Topics

ENGM 792 Topics

IENG 506 Occupational Biomechanics

IENG 515 Decision Analysis

IENG 531 Industrial Hygiene

IENG 555 Supply Chain Management and Logistics

IENG 592 Topics

Core courses in excess of the requirements may also be used as electives.

Contact Us for More Information

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Inquire or Apply Online at
sdsmt.edu/DistanceEducation

