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](http://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.*

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**Contact Us for More Information**

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Inquire or Apply Online at sdsmt.edu/DistanceEducation