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 32 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 cost except for books South Dakota residents are eligible for a discount to $450.90 per credit hour.

*based on 2018/2019 costs. See online price table for details

Admission Requirements
- Completed graduate application form
- $35 application fee
- One official transcript of prior academic work, sent directly to SD Mines by the issuing institution, showing the undergraduate degree awarded.
- 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.

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

Students admitted to this degree program must possess a bachelor’s degree from a four-year accredited institution. In addition, the following bachelor’s level credits are required:

- Mathematics one year minimum, to include algebra and basic calculus (Equivalent to School of Mines MATH 123).
- Six semester hours of natural and physical science (fields of geology, astronomy, biology, meteorology, chemistry, and physics) and which must include at least 3 credit hours of chemistry or physics
- Three semester hours of probability and statistics
- Two semester hours of engineering economics

Required Core Courses (3 credits in each of 4 core areas)

**Business/Finance**

ENGM 661: Engineering Economics for Managers (variable credits: 1 to 4)
ENGM 640: Business Strategy

**Management**

ENGM 642: Engineering Management and Labor Relations
IENG 466/566: Project Planning and Control

**Quantitative Methods**

ENGM 435/535: Optimization Techniques
ENGM 632: Stochastic Models in Operations Research
ENGM 745: Forecasting for Business and Technology

**Operations Management**

ENGM 663: Operations Planning
ENGM 620: Quality Management

Recommended Elective Courses (20 credits)

ENGM 640: Business Strategy
ENGM 650: Safety Management
ENGM 655: Ergonomics for Managers
ENGM 675: Legal and Ethical Issues in Engineering Management
ENGM 625: Innovation and Commercialization
ENGM 621: Statistical Process Control
ENGM 632: Stochastic Models in Operations Research
ENGM 745: Forecasting for Business and Technology
IENG 431/531: Industrial Hygiene
IENG 415/515: Decision Analysis
ENGM 615: Nonparametric Statistics
ENGM 792: Topics (variable credits: 1 to 3)

For More Information:
Dr. Jeff Woldstad, ENGM Program Coordinator
Phone: (605) 394-6066
Email: Jeff.Woldstad@sdsmt.edu

Graduate Education Office
501 E Saint Joseph St
Chemistry Building, Room 2201
Rapid City, South Dakota 57701-3995
Phone: (605) 355-3468
FAX: (605) 394-1767

www.sdsmt.edu
Revised Jun 2019