# ENGINEERING MANAGEMENT (CERTIFICATE)

Designed to position students as effective engineering managers, the Engineering Management graduate certificate program at Nebraska combines expert faculty, purposeful curriculum and a broad range of perspectives in the engineering field.

## Description

Curriculum in this program provides current and future engineering managers with enhanced skills in forming and managing productive teams, executing goal-oriented strategies, and influencing the relevance of your organization in today's competitive global market.

Your peers will be experienced professionals who work in engineering and technology and will share their work experiences, challenges, and perspectives. Cross pollination of ideas and learning opportunities are tremendous. Learn how to manage and lead teams and how to analyze decisions and risk in the two core courses. Then take two elective courses to explore other topics of your choice to gain knowledge and skills to energize your career.

Once you successfully complete the Graduate Certificate in Engineering Management, you may apply for admission to the Master of Engineering Management (MEM) program and use the credit hours earned toward completion of that degree.

- Visit the Graduate Certificate Curriculum (https://engineering.unl.edu/mem/graduate-certificate/) Page.
- Engineering Management employs a flat tuition rate for residents and non-residents. See MEM Tuition/Fees (https://engineering.unl.edu/mem/tuition-fees/) for more information.
- Visit Frequently Asked Questions (https://engineering.unl.edu/mem/about-mem/faq/) for the MEM degree program.
- Attend an Informational Webinar (https://engineering.unl.edu/mem/admissions/upcoming-online-info-sessions/) with the program director about the Master of Engineering Management (MEM) degree program.

## Program-Related Information

**Graduate Chair**

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**Support Staff**

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## Program Website

https://engineering.unl.edu/mem/

## Applying for Admission

### Standard requirements for all graduate programs

- Application for Admission with $50 non-refundable application fee (https://graduate.unl.edu/admissions/requirements/#appfee).
- Transcripts (https://graduate.unl.edu/admissions/requirements/#transcripts) (unofficial): Uploaded as part of application form.

  If International: Uploads must include all college- or university-level transcripts or mark sheets (records of courses and marks earned), with certificates, diplomas, and degrees plus certified English translations.

  After admission: Official documents are required from all students who are admitted and enroll. Photocopies of certified records are not acceptable. International students enrolled in other U.S. institutions may have certified copies of all foreign records sent directly to the Office of Graduate Studies by their current school's registrar office.
- If applicant's native language is not English, verification of English proficiency (https://graduate.unl.edu/admissions/english-proficiency/) is required.

  When sending TOEFL scores, our institution code is 6877 and a department code is not needed.
- If applicant is not a US citizen and expects an F or J visa: financial information (https://graduate.unl.edu/prospective/international/financial/).
- Applicants must also fulfill any additional requirements the department specifies at the time of application.

### Additional requirements specific to this program

- GRE optional
- Resume/CV: Your resume should specifically indicate the following: Work experience after undergraduate degree in engineering and closely related fields, indicating list of companies, locations, positions, dates of employment, responsibilities; engineering co-op/intern experience along with company name, location, dates, responsibilities; education including degrees, institutions, locations, date of graduation, GPA upon graduation; extra-curricular activities and leadership positions; awards, honors, achievements; other information as you deem fit.
- Personal Statement
- Two letters of Recommendation: Preference is for both recommenders to be industry contacts (current or past work supervisors and managers of engineering positions). However, your application will be considered if one recommender is academic contact (faculty).

*Admission is based on holistic review of application. The following are admission requirements: Undergraduate or higher degree in engineering or quantitative discipline (STEM); two years (recommended) of relevant work experience in engineering and technology industry (engineering co-op education and internships may be considered as part of the two years); GPA of 2.75 on a 4.00 scale (if deficient discuss with program staff); Calculus I or higher (if deficient discuss with program staff); course in probability and statistics taken within 5 years with at least C grade (if deficient, discuss with program staff). Refer to departmental FAQ for more information about admission requirements, curriculum, general information, delivery, program structure, tuition and cost, and international applicants.*

*Certificate programs are not considered degree programs, additionally, coursework for this program is delivered primarily online, so international students should be aware that admission to this program is ineligible for immigration forms for an F-1 student visa.*

### Admission Application Deadlines

Applications are accepted throughout the year on an ongoing basis for Fall, Spring, and 8-week Summer
session.

- Fall and Spring courses are offered in 8-week mini sessions: Fall-A and Fall-B, Spring-A and Spring-B. If a semester has already started but you wish to join the "B" mini session, select the following semester when applying and then contact program staff to notify them of your plans. They will coordinate with Graduate Studies to change your start term.

# Requirements

Complete 12 credit hours as described below:

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| **Required Courses** (6 credits) | | **6** |
| EMGT 805 | Teamwork for Organizational Commitment and Collaboration | 3 |
| EMGT 806 | Decision and Risk Analysis | 3 |
| **Electives** (6 credits) | | **6** |
| EMGT 803 | Management of Engineering and Technology | 3 |
| EMGT 804 | Human Relations in Engineering and Sciences | 3 |
| EMGT 807 | Project Management | 3 |
| EMGT 808 | Engineering Leadership | 3 |
| EMGT 811 | Legal Considerations for Engineering Managers | 3 |
| EMGT 819 | Applied Management Science for Engineering and Operations | 3 |
| EMGT 822 | Production and Operations Management | 3 |
| EMGT 820 | Quantitative Analysis for Engineering Management Decisions | 3 |
| EMGT 891 | Special Topics in Engineering Management | 3 |
| EMGT 901 | Total Quality Management Using Six Sigma Techniques | 3 |
| EMGT 905 | Strategic Management and Planning | 3 |