

ENGINEERING MANAGEMENT - GRADUATE CERTIFICATE (ONLINE)

Advancing your career as a successful manager of technical and engineering teams means demonstrating effective leadership and possessing a range of real-world competencies. In this online graduate certificate program through the Coursera platform, students will master the key elements of engineering management and business-related functions, including finance, project management and authentic leadership. Through this comprehensive approach to management, students will be well-prepared to make an immediate and significant impact within their organizations.

The Engineering Management Graduate Certificate is an affordable way to gain new skills, earn an industry-recognized credential, and prepare for career advancement. For students interested in continuing their education, the certificate consists of the first three specializations within the ME-EM on Coursera master's degree (<https://www.colorado.edu/emp/coursera/>) and can be stacked toward the full degree.

ME-EM and Engineering Management Graduate Certificate on Coursera students earn the same credentials as on-campus students. There are no online or Coursera designations on official CU transcripts and diplomas.

Program Policies

This specialized program does not align with standard campus policies. Please refer to the Special Online Programs (<https://catalog.colorado.edu/specialized-programs/>) section of the catalog for more information.

Requirements

Admission Requirements

There are no admission processes for learners seeking to earn the Engineering Management Graduate Certificate on the Coursera platform. All courses attempted and/or completed for credit will appear on an official CU Boulder transcript (unless dropped by the drop deadline) and will count toward the cumulative GPA.

Program Requirements

To earn the Engineering Management Graduate Certificate, students must earn 9 credit hours in the required courses listed below. To earn the certificate, students must have a separately computed minimum cumulative GPA of 3.00 across courses applicable toward the certificate. Certificate courses in which grades below C+ (2.3) are received may not be applied toward the certificate requirements.

Prerequisite Knowledge

There are no formal prerequisites for the Engineering Management Graduate Certificate, but we recommend that prospective students have an undergraduate degree in engineering, science, or a technical field (including areas such as physics, applied mathematics, and computer science). If they do not have an undergraduate degree in engineering or a technical field, we recommend that students try the non-credit versions of courses to test their readiness before upgrading to the for-credit versions.

Required Courses and Credits

Code	Title	Credit Hours
Finance for Technical Managers		
EMEA 5021	Product Cost and Investment Cash Flow Analysis	1
EMEA 5022	Project Valuation and the Capital Budgeting Process	1
EMEA 5023	Financial Forecasting and Reporting	1
Project Management		
EMEA 5031	Project Management: Foundations and Initiation	1
EMEA 5032	Project Planning and Execution	1
EMEA 5033	Agile Project Management	1
Leading Oneself		
EMEA 5051	Leading Oneself with Self-Knowledge	1
EMEA 5052	Leading Oneself with Purpose and Meaning	1
EMEA 5053	Leading Oneself with Personal Excellence	1
Total Credit Hours		9

Learning Outcomes

Upon completing the program, students will be able to:

- Analyze personal leadership awareness.
- Manage complex projects with a systems-approach.
- Understand the financial implications of engineering decisions.