

# ENGINEERING MANAGEMENT, MASTER OF ENGINEERING MANAGEMENT

The Master of Engineering Management (M.E.M.) will provide practitioners in the information, government, defense, military, and aerospace industries with the conceptual foundations and the skills required to take upper management roles in technology-driven, project-oriented companies and organizations. The M.E.M. program at Colorado State University-Pueblo focuses on the identification of problems arising in complex, interconnected, interdependent operations and on the design and deployment of efficient solutions for those problems. Our program has an interdisciplinary approach, leveraging solid principles of systems theory with modern business analysis tools. A CSU-Pueblo M.E.M. graduate is a practice-oriented professional who will bring to their organization innovative solutions to complex, ill-defined problems.

Conscious of the fast-paced dynamics of the targeted industries, the Master of Engineering Management is tailored to working professionals with technical undergraduate degrees (that required a calculus and physics sequence). The degree is offered fully online with the opportunity of doing a summer residential capstone where students, with the assistance of their instructors and peers, will focus on developing and implementing a project of their choice.

## Specific Admission Requirements

Admission to the Master of Engineering Management (M.E.M.) program is in accordance with Colorado State University Pueblo and the Department of Engineering requirements for master's programs as specified in the University's Catalog.

Admission requirements specific to this program include the following:

1. Official transcripts from all post-secondary institutions attended.
2. Undergraduate degree from an ABET-accredited or similar accredited program in engineering or engineering technology, or a Bachelor of Science in science or math (that required a calculus and physics sequence) with a GPA of 3.00 (out of 4.00) or better. Students who hold bachelor's degrees in other disciplines or who do not meet the GPA requirement may be considered for admission based on transcript evidence of applicable physics, calculus, and statistics courses, a résumé indicating relevant work experience in an engineering discipline.
3. Résumé detailing relevant work experience.
4. Technical essay that aligns the candidate's experience and their current organization's needs to the program and states the personal and professional motivations to apply to the program.
5. Students not meeting the above requirements may be admitted provisionally. The Graduate Program Director of the Engineering Department may request additional information supporting the application.

## Specific Program Requirements

Course	Title	Credits
<b>Prerequisites and Leveling Courses</b> <small>Leveling course credits do not count toward program total credit count.</small>		
Technical Communication <small>Must be English course. Must be 3 credits.</small>		
Select one of the following		
EN 375	Stochastic Systems Engineering	3
BSAD 265	Inferential Statistics & Problem Solving	3
<b>Core Courses</b>		<b>15</b>
EN 543	Quality Control and Reliability	3
EN 528	Systems Theory & Applications	3
MGMT 511	Production/Operations Management	3
MGMT 568	Advanced Project Management	3
EN 525	Modeling & Simulation	3
<b>Electives</b>		<b>12</b>
Select 12 credits from the following courses		
FIN 530	Financial Management	3
CIS 565	Management Information Systems	3
MGMT 520	Management of Organizational Behavior	3
MGMT 585	Management Policy and Strategy	3
BSAD 502	Business Ethics and Environment	3
EN 578	Decision Making under Uncertainty	3
BSAD 560	Managerial Analytics	3
<b>Program Capstone</b>		<b>3</b>
EN 585	Program Capstone	3
<b>Total Credits</b>		<b>30</b>