

MASTER OF SCIENCE IN THE FIELD OF ENGINEERING MANAGEMENT (ONLINE)

The online master of science in engineering management is designed to provide students with an interdisciplinary understanding of leadership skills—specifically, the skills needed to become effective managers in technology-driven organizations and government entities. Throughout the program, students acquire knowledge of technical engineering principles and engineering contracts within a management context.

Program graduates are equipped with the skills to effectively lead diverse engineering teams, oversee complex projects, implement innovative strategies, and drive organizational success. They also are prepared to take the Project Management Professional Examination (offered by the Project Management Institute) to receive the PMP certification.

The online program’s structure offers synchronous and asynchronous learning options, giving students the flexibility to study at their convenience and from any location.

This is a STEM designated program.

- Visit the program website (<https://online.engineering.gwu.edu/online-master-science-engineering-management/>) for additional information
- Download a free brochure (https://online.engineering.gwu.edu/sites/g/files/zaxdzs5816/files/2024-03/ms.em_.2024.pdf)
- Begin your application (<https://online.engineering.gwu.edu/apply/>)

ADMISSIONS

Admission deadlines: Admission is offered on a rolling basis.

Recommendations required: Three recommendation are required

Prior academic records: Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended must be uploaded to your online application. Official transcripts are required only of applicants who are offered admission.

If academic records are in a language other than English, a copy in the original language and an English language translation must be uploaded. Transcript evaluations should not be uploaded. Applicants with degrees from Indian universities should upload transcripts and/or detailed marksheets.

Statement of purpose: An essay of approximately 250 words, state your purpose in undertaking graduate study at GW; describe your academic objectives, research interests, and career plans; and discuss your related qualifications, including collegiate, professional, and community activities, and any other substantial accomplishments not already mentioned.

Additional requirements: The Department requires that the applicant have a suitable bachelor's degree in an area such as engineering, a physical science, or mathematics with a GPA of at least 2.7 on a 4.0 scale. A grade of C or better in a second level calculus class is required. Applicants without a technical degree may apply and if accepted will be required to take an additional prerequisite course of EMSE 4197.

All applicants must also submit a resumé or CV.

REQUIREMENTS

The following requirements must be fulfilled: 36 credits, including 24 credits in required courses and 12 credits in courses assigned by the advisor.

Code	Title	Credits
Required		
Core courses		
EMSE 6001	The Management of Technical Organizations	
EMSE 6099	Problems in Engineering Management and Systems Engineering	
EMSE 6410	Survey of Finance and Engineering Economics	
EMSE 6820	Program and Project Management	
Other required courses		
EMSE 6020	Decision Making with Uncertainty	
EMSE 6801	Systems Engineering I	
EMSE 6810	Systems Analysis and Management	
EMSE 6825	Project Cost and Quality Management	
Assigned courses		
Four courses (12 credits) assigned by the advisor.		