MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

The Master of Science in Engineering Management program is a coursework-based graduate degree program oriented toward students who wish to gain introductory knowledge in the management of engineering projects. Project management is a critical requirement for successful industrial, construction, and other engineering projects.

Students with a variety of academic backgrounds are eligible to apply for the program, including those with undergraduate degrees in engineering disciplines (e.g., architectural, civil, mechanical, or environmental engineering) and non-engineering disciplines (e.g., architecture, construction management, or others).

Curriculum

Degree Requirements

Code	Title		Credit Hours
Core Courses			**(12)**
EMGT 470	Project Management		3
EMGT 523	Statistical Analysis of Engineering Data		3
EMGT 574	Economic Decision Analysis in Engineering		3
EMGT 575	Systems Analysis in Engineering		3
Major Elective Courses			**(12)**
Select a minimum of 12 credit hours from the following courses:			12
BUS 510	Strategic Management	3	
BUS 532	Artificial Intelligence in Business	3	
BUS 550	Business and Financial Quantitative Techniques	3	
CAE 473	Construction Contract Administration	3	
CAE 568	Transportation Asset Management	3	
CAE 569	Construction Methods, Cost Estimating, and Project Budgeting	3	
CAE 570	Legal Issues in Civil Engineering	3	
CHE 506	Entrepreneurship and Intellectual Property Management	3	
CHE 543	Energy, Environment, and Economics	3	
EMGT 406	Entrepreneurship and Intellectual Property Management	3	
INTM 511	Industrial Leadership	3	
INTM 515	Advanced Project Management	3	
INTM 534	Digital Transformation	3	
INTM 537	Smart Factory Automation	3	
INTM 548	Agile Methodologies for New Product/Process Development	3	
MBA 523	Negotiations and Strategic Decision Making	3	
MMAE 560	Statistical Quality and Process Control	3	
or CHE 560	Statistical Quality and Process Control		
MMAE 589	Applications in Reliability Engineering I	3	
MMAE 590	Applications in Reliability Engineering II	3	
PM 501	Project Management Essentials	3	
PM 502	Project Scope, Quality and Risk Management	3	
PM 503	Project Schedule and Cost Management	3	
PM 505	Project Finance and Procurement	3	
PM 506	Agile Strategies and Practices	3	
PM 507	Project Management Capstone	3	
PM 508	High Impact Power Skills	3	
General Elective Courses			**(6)**
Select 6 credit hours of additional major or general electives [1]			6
Total Credit Hours			**30**

[1] General electives include any 400- or 500-level course in BME, BUS, CAE, CHE, CS, ECE, EMGT, ENVE, INTM, MATH, MMAE, STAT or other disciplines with advisor approval. Up to 12 credit hours of 400-level courses can be applied to the program.