

## Master of Science in Engineering and Technology Management

**Degree Codes:** ES MSEM EMGT

**Concentration:** Management of Technology

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Overall requirements for the specific options are as follows:

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Course Category	Number	Course Name		SCH	
Core Courses	INEN 514	Statistical Analysis for Six Sigma	3	6	
	INEN 518	Project Management	3		
	Quantitative Analysis and Management. Pick three courses (9 semester hours) from the following list			9	
	FINC 577**	Finance and Accounting for Non-Financial Managers	3		
	INEN 502	Operations Research Methods	3		
	INEN 503	Management of Engineering Functions	3		
	INEN 504	Simulation	3		
	INEN 505	Manufacturing and Operations Analysis	3		
	INEN 507	Engineering Administration	3		
	INEN 509	Economics and Decision Making	3		
	INEN 566	Six Sigma and Quality Control	3		
	MGMT 537	Human Resource Management	3		
	MGMT 571	Organizational Behavior	3		
	PSYC 513	Organizational Psychology	3		
	PSYC 516	Industrial Psychology	3		
	Science, Engineering and Entrepreneurship. Pick three courses (9 semester hours) from the following list			9	
	ELEN 525	Telecommunication Theory and Application	3		
	ELEN 526	Modern Wireless and Optical Networking	3		
	ELEN 527	Optical Communication Systems	3		
	ELEN 581	Semiconductor Technology Management	3		
	ELEN 582	Micro/Nanotechnology Management	3		
	ENGR 554	Modern Energy Grand Challenges	3		
	ENTR 501	Technology Transfer and Commercialization	3		
	ENTR 510	Entrepreneurship and new Venture Creation	3		
	ENTR 560	Innovation Venture Research	3		
	MSE 501	Fundamentals of Microfabrication Processes	3		
	MSE 505	Nanotechnology Principles	3		
	MSNT 521	Principles of Cell and Molecular Biology	3		
		Other courses approved by advisor			
	Electives*	Three courses (9 semester hours) from electives list or others approved by advisor, including those shown in Quantitative Analysis and Management section above.*			9
					Total 33

\*The maximum number of variable credit Independent Study courses that can be applied towards the degree is 6 SCH.

**Suggested Electives**

ACCT 505**	Accounting Analysis and Decision Making	3	INEN 512	Reliability Engineering	3
BUSN 501	Global Perspectives in Business Management	3	INEN 515	Logistics Planning	3
CIS 510	Information Resource Management	3	INEN 520	Six Sigma Black Belt Project	3
CIS 521	Introduction to Information System Assurance	3	MKGT 530	Marketing Management	3
FINC 515**	Financial Management	3	PSYC 523	Leadership Decision Making	3
INEN 511	Theory and Appl. Of Lean Mfg. and Mgmt.	3	STAT 507	Design and Analysis of Experiments	3

\*\*Certain course pairs cannot be both taken for credit due to a large amount of material overlap. These include FINC 577 and ACCT 505/FINC 515

**Coursework Only Option is all that is Available****No Thesis Option Available****No Practicum Option Available**

**Plan of Study Important Information:** When entering information in the plan of study, it is important to note that only core courses and all core courses need to be put in section 1.1, while all others are put in section 1.2 (i.e. special topics, seminar, and research courses).

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