

## Master of Science in Engineering and Technology Management

**Degree Codes:** ES MSEM EMGT

**Concentration:** Construction

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Overall requirements for the specific options are as follows:

### Requirements for all degree types

Course Category	Number	Course Name		SCH	
<b>Core Courses</b>	INEN 514	Statistical Analysis for Six Sigma	3	6	
	EMGT 518	Project Management	3		
	Quantitative Analysis and Management. Pick two courses (6 semester hours) from the following list				6
	INEN 502	Operations Research Methods	3		
	INEN 504	Simulation	3		
	INEN 505	Manufacturing and Operations Analysis	3		
	INEN 520	Six Sigma Black Belt Project	3		
	INEN 566	Six Sigma and Quality Control	3		
	EMGT 507	Engineering Administration	3		
	EMGT 509	Economics and Decision Making	3		
	EMGT 525	Engineering Finance	3		
	MGMT 537	Human Resource Management	3		
	MGMT 571	Organizational Behavior	3		
	PSYC 513	Organizational Psychology	3		
	PSYC 516	Industrial Psychology	3		
	STAT 507	Design and Analysis of Experiments	3		
<b>Concentration Courses</b>	Construction/Civil Related Courses. Pick three courses (9 semester hours) from the following list				9
	CVEN 502	Infrastructure Management	3		
	CVEN 503	Urban Hydrosystems Engineering	3		
	CVEN 505	Buried Structures – Rehab and Mgmt	3		
	CVEN 506	Above Ground Structures: Assessment and Rehabilitation	3		
	CVEN 542	Sustainable Construction	3		
	CVEN 580	Trenchless Technology	3		
	MEMT 508	Finite Element Analysis	3		
	Other courses approved by advisor			3	
<b>Total</b>				<b>21</b>	

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

**Thesis Option** (in addition to the courses above)

<b>Course Category</b>	<b>Number</b>	<b>Course Name</b>		<b>SCH</b>
<b>Core Courses</b>	ENGR 510	Introduction to Engineering and Science Research Methods	2	3
	ENGR 511	Engineering and Science Research Proposal Development	1	
<b>Thesis</b>	CVEN 551	Research & Thesis (6 SCH are required with at least 3 SCH taken in the quarter the thesis is reviewed and approved)		6
				Total 30

**Practicum Option** (in addition to the courses above)

<b>Course Category</b>	<b>Number</b>	<b>Course Name</b>		<b>SCH</b>
<b>Core Courses</b>	ENGR 510	Introduction to Engineering and Science Research Methods	2	3
	ENGR 511	Engineering and Science Research Proposal Development	1	
	Pick two additional courses (6 semester hours) from the Quantitative Analysis and Management list			
<b>Practicum</b>	CVEN 555	Research and Communication Seminar		3
				Total 33

**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). See <http://coes.latech.edu/grad-programs/plan-of-study-instructions.pdf> for plan of study instructions.

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