

Master of Science in Engineering and Technology Management Concentration: Aviation Management Degree Codes: ES MSEM EMGT				Master of Science in Engineering and Technology Management Concentration: Construction Degree Codes: ES MSEM EMGT				
Concentration: Aviation Management		Contact: Dr. Mary Fendley mfendley@latech.edu		Concentration: Construction		Contact: Dr. John Matthews matthews@latech.edu		
Course Category	Number	Course Name	SCH	SCH	Number	Course Name	SCH	
Core Courses	INEN 514	Statistical Analysis for Six Sigma	3	6	INEN 514	Statistical Analysis for Six Sigma	3	
	EMGT 518	Project Management	3		EMGT 518	Project Management	3	
	Quantitative Analysis and Management. Pick two courses (6 semester hours) from the following list			6	Quantitative Analysis and Management. Pick two courses (6 semester hours) from the following list			6
	EMGT 507	Engineering Administration	3		EMGT 507	Engineering Administration	3	
	EMGT 509	Economics and Decision Making	3		EMGT 509	Economics and Decision Making	3	
	EMGT 525	Engineering Finance	3		EMGT 525	Engineering Finance	3	
	INEN 502	Operations Research Methods	3		INEN 502	Operations Research Methods	3	
	INEN 504	Simulation	3		INEN 504	Simulation	3	
	INEN 505	Manufacturing and Operations Analysis	3		INEN 505	Manufacturing and Operations Analysis	3	
	INEN 520	Six Sigma Black Belt Project	3		INEN 520	Six Sigma Black Belt Project	3	
	INEN 521	Introduction to Cognitive Systems Engineering	3		INEN 521	Introduction to Cognitive Systems Engineering	3	
INEN 566	Six Sigma and Quality Control	3	INEN 566		Six Sigma and Quality Control	3		
STAT 507	Design and Analysis of Experiments	3	STAT 507	Design and Analysis of Experiments	3			
Concentration Courses	Aviation Management Related Courses. Pick three courses (9 semester hours) from the following list			9	Construction/Civil Related Courses. Pick three courses (9 semester hours) from the following			9
	PRAV 501	The Aviation System	3		CVEN 502	Infrastructure Management	3	
	PRAV 502	Human Error in Aviation	3		CVEN 503	Urban Hydrosystems Engineering	3	
	Select One of the Following Three Courses				CVEN 505	Buried Structures – Rehab and Mgmt	3	
	PRAV 503	Regulatory Process of Aviation	3		CVEN 506	Above Ground Structures: Assessment and Rehabilitation	3	
	PRAV 504	Current Issues in Aviation	3		CVEN 542	Sustainable Construction	3	
	PRAV 505	Legal Issues in Aviation	3		CVEN 580	Trenchless Technology	3	
Other courses approved by advisor			MEMT 508	Finite Element Analysis	3			
			Other courses approved by advisor			3		
			Total				Total	
			21				21	

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

Thesis Option for both concentrations (in addition to the courses above)

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

Practicum Option for both concentrations (in addition to the courses above)

Course Category	Number	Course Name	SCH	SCH
Core Courses	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			6
Practicum	INEN 555	Practicum in IE	3	3
				Total
				33