

# Master of Science in Engineering and Technology Management

Contact: Dr. Beth Hegab

318-257-3107

bhegab@latech.edu

Engineering Management Concentration			Management of Technology Concentration			Construction Concentration			Data Science Concentration			Aviation Management Concentration		
Core Courses		24	Core Courses		6	Core Courses		6	Core Courses		6	Core Courses		6
EMGT 507	Engineering Administration	3	EMGT 518	Project Management	3	EMGT 518	Project Management	3	EMGT 518	Project Management	3	EMGT 518	Project Management	3
EMGT 509	Economics and Decision Making	3	INEN 514	Statistical Analysis for Six Sigma	3	INEN 514	Statistical Analysis for Six Sigma	3	INEN 514	Statistical Analysis for Six Sigma	3	INEN 514	Statistical Analysis for Six Sigma	3
EMGT 518	Project Management	3	Quantitative Analysis and Management (Pick 3 Courses)		9	Quantitative Analysis and Management (Pick 4 Courses)		12	Quantitative Analysis and Management (Pick 4 Courses)		12	Quantitative Analysis and Management (Pick 4 Courses)		12
EMGT 525	Engineering Finance	3	EMGT 507	Engineering Administration	3	EMGT 507	Engineering Administration	3	EMGT 507	Engineering Administration	3	EMGT 507	Engineering Administration	3
INEN 502	Operations Research Methods	3	EMGT 509	Economics and Decision Making	3	EMGT 509	Economics and Decision Making	3	EMGT 509	Economics and Decision Making	3	EMGT 509	Economics and Decision Making	3
INEN 505	Manufacturing and Operations Analysis	3	EMGT 525	Engineering Finance	3	EMGT 525	Engineering Finance	3	EMGT 525	Engineering Finance	3	EMGT 525	Engineering Finance	3
INEN 511	Theory and Application of Lean Manufacturing and Management	3	INEN 502	Operations Research Methods	3	INEN 502	Operations Research Methods	3	INEN 502	Operations Research Methods	3	INEN 502	Operations Research Methods	3
INEN 514	Statistical Analysis for Six Sigma	3	INEN 504	Simulation	3	INEN 504	Simulation	3	INEN 504	Simulation	3	INEN 504	Simulation	3
			INEN 505	Manufacturing and Operations Analysis	3	INEN 505	Manufacturing and Operations Analysis	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 520	Six Sigma Black Belt Project	3	INEN 520	Six Sigma Black Belt Project	3
			INEN 566	Six Sigma and Quality Control	3	INEN 566	Six Sigma and Quality Control	3	INEN 566	Six Sigma and Quality Control	3	INEN 566	Six Sigma and Quality Control	3
			MGMT 537	Human Resource Management	3	MGMT 537	Human Resource Management	3	MGMT 537	Human Resource Management	3	MGMT 537	Human Resource Management	3
			MGMT 571	Organizational Behavior	3	MGMT 571	Organizational Behavior	3	MGMT 571	Organizational Behavior	3	MGMT 571	Organizational Behavior	3
			PSYC 513	Organizational Psychology	3	PSYC 513	Organizational Psychology	3	PSYC 513	Organizational Psychology	3	PSYC 513	Organizational Psychology	3
			PSYC 516	Industrial Psychology	3	PSYC 516	Industrial Psychology	3	PSYC 516	Industrial Psychology	3	PSYC 516	Industrial Psychology	3
			STAT 507	Design and Analysis of Experiments	3	STAT 507	Design and Analysis of Experiments	3	STAT 507	Design and Analysis of Experiments	3	STAT 507	Design and Analysis of Experiments	3
			Science, Engineering, and Entrepreneurship (Pick 3 Courses)		9	Construction and Civil (Pick 3 Courses)		9	Data Science		9	Aviation Management		9
			ELEN 535	Advanced Topics in Microelectronics	3	CVEN 502	Infrastructure Management	3	CSC 530	Database Theory	3	PRAV 501	The Aviation System	3
			ELEN 581	Semiconductor Technology Management	3	CVEN 503	Urban Hydrosystems Engineering	3	STAT 509	Statistical Learning	3	PRAV 502	Human Error in Aviation	3
			ELEN 582	Micro/Nanotechnology Management	3	CVEN 505	Buried Structures - Rehab and Management	3	Select one of the following two courses			Select one of the following three courses		
			ENGR 554	Modern Energy Grand Challenges	3	CVEN 506	Above Ground Structures: Assessment and Rehabilitation	3	CSC 576	Data Analytics Tools and Applications	3	PRAV 503	Regulatory Process of Aviation	3
			ENTR 501	Technology Transfer and Commercialization	3	CVEN 542	Sustainable Construction	3	INEN 521	Introduction to Cognitive Systems Engineering	3	PRAV 504	Current Issues in Aviation	3
			ENTR 510	Entrepreneurship and New Venture Creation	3	CVEN 580	Trenchless Technology	3				PRAV 505	Legal Issues in Aviation	3
			ENTR 560	Innovative Venture Research	3	MEMT 508	Finite Element Analysis	3						
			MSE 501	Fundamentals of Microfabrication Processes	3		Other technical electives approved by advisor							
			MSE 502	Microsystems Principles	3									

			MSE 505	Nanotechnology Principles	3										
			MSNT 518	Molecular Biotechnology	3										
				Other technical electives approved by advisor											
Electives (Pick 3 Courses)		9	Electives (Pick 3 Courses)			9	Electives (Pick 2 Courses)		6	Electives (Pick 2 Courses)		6	Electives (Pick 2 Courses)		6
BUSN 501	Global Perspectives in Business Management	3	ACCT 505	Accounting Analysis for Decision Making	3	ACCT 505	Accounting Analysis for Decision Making	3	ACCT 505	Accounting Analysis for Decision Making	3	ACCT 505	Accounting Analysis for Decision Making	3	
CIS 510	Information Resource Management	3	BUSN 501	Global Perspectives in Business Management	3	BUSN 501	Global Perspectives in Business Management	3	BUSN 501	Global Perspectives in Business Management	3	BUSN 501	Global Perspectives in Business Management	3	
CIS 521	Introduction to Information System Assurance	3	CIS 506	Advanced Business Analytics	3	CIS 506	Advanced Business Analytics	3	CIS 506	Advanced Business Analytics	3	CIS 506	Advanced Business Analytics	3	
ENTR 501	Technology Transfer and Commercialization	3	CIS 521	Introduction to Information System Assurance	3	CIS 521	Introduction to Information System Assurance	3	CIS 521	Introduction to Information System Assurance	3	CIS 521	Introduction to Information System Assurance	3	
ENTR 510	Entrepreneurship and New Venture Creation	3	ENTR 501	Technology Transfer and Commercialization	3	ENTR 501	Technology Transfer and Commercialization	3	ENTR 501	Technology Transfer and Commercialization	3	ENTR 501	Technology Transfer and Commercialization	3	
ENTR 560	Innovative Venture Research	3	ENTR 510	Entrepreneurship and New Venture Creation	3	ENTR 510	Entrepreneurship and New Venture Creation	3	ENTR 510	Entrepreneurship and New Venture Creation	3	ENTR 510	Entrepreneurship and New Venture Creation	3	
INEN 504	Simulation	3	ENTR 560	Innovative Venture Research	3	ENTR 560	Innovative Venture Research	3	ENTR 560	Innovative Venture Research	3	ENTR 560	Innovative Venture Research	3	
INEN 515	Logistics Planning	3	FINC 515	Financial Management	3	FINC 515	Financial Management	3	FINC 515	Financial Management	3	FINC 515	Financial Management	3	
INEN 520	Six Sigma Black Belt Project	3	INEN 511	Theory and Application of Lean Manufacturing and Management	3	INEN 511	Theory and Application of Lean Manufacturing and Management	3	INEN 511	Theory and Application of Lean Manufacturing and Management	3	INEN 511	Theory and Application of Lean Manufacturing and Management	3	
INEN 557	Design for Six Sigma	3	INEN 515	Logistics Planning	3	INEN 515	Logistics Planning	3	INEN 515	Logistics Planning	3	INEN 515	Logistics Planning	3	
INEN 566	Six Sigma and Quality Control	3	INEN 521	Introduction to Cognitive Systems Engineering	3	INEN 521	Introduction to Cognitive Systems Engineering	3	INEN 557	Design for Six Sigma	3	INEN 521	Introduction to Cognitive Systems Engineering	3	
MGMT 537	Human Resource Management	3	INEN 557	Design for Six Sigma	3	INEN 557	Design for Six Sigma	3	MKTG 530	Marketing Management	3	INEN 557	Design for Six Sigma	3	
MGMT 571	Organizational Behavior	3	MKTG 530	Marketing Management	3	MKTG 530	Marketing Management	3	PSYC 523	Leadership and Decision Making	3	MKTG 530	Marketing Management	3	
MKTG 530	Marketing Management	3	PSYC 523	Leadership and Decision Making	3	PSYC 523	Leadership and Decision Making	3		Other electives approved by advisor		PSYC 523	Leadership and Decision Making	3	
PSYC 513	Organizational Psychology	3		Other electives approved by advisor			Other electives approved by advisor						Other electives approved by advisor		
PSYC 516	Industrial Psychology	3													
PSYC 523	Leadership Decision Making	3													
STAT 507	Design and Analysis of Experiments	3													
	Other electives approved by advisor														
Total		33	Total			33	Total		33	Total		33	Total		33

For all concentrations, at least 5 of the 11 courses must be EMGT, INEN, or STAT.

Updated 10/24