

## Master of Science in Microsystems Engineering

Effective : Fall 2006

**Degree Codes:** ES MMSE MSEN

**Contact:** Professor Hisham Hegab

Phone: 318 257-3791

E-mail: hhegab@latech.edu

**SCH Requirements:** 33 SCH  
**Thesis Option:** Not available  
**Practicum Option:** Not available  
**Course-work only option:** Yes (as specified below)

Course Category	Number	Course Name	SCH
<b>Microsystems Core Courses (15 SCH)</b>	MSE 501	Fundamentals of Microfabrication Processes	3
	MSE 502	Microsystems Principles	3
	MSE 510	Microsystems Design, Fabrication, and Testing Laboratory	3
	<i>Two of the following three courses:</i>		6
	MSE 504	Advanced Materials for Micro/Nano Devices and Systems	
	MSE 505	Nanotechnology Principles	
	MSE 506	Micro/Nano Scale Materials Measurements and Analysis	
<b>Disciplinary Courses (9 SCH)</b>	<i>Three courses from an engineering area of interest: biomedical, chemical, civil, electrical, industrial, mechanical, or microsystems.</i>		9
<b>Mathematics &amp; Statistics (6 SCH)</b>	<i>One mathematics and one statistics courses from the following list of courses</i>		
	<b>MATHEMATICS</b>		3
	MATH 407	Partial Differential Equations	
	MATH 414	Numerical Analysis	
	MATH 574	Numerical Solutions to Partial Differential Equations I	
	MATH 575	Numerical Solutions to Partial Differential Equations II	
	<b>STATISTICS</b>		3
	INEN 514	Industrial Statistics	
STAT 505	Statistics for Engineering and Science		
<b>Elective (3 SCH)</b>	<i>One course from a non-engineering discipline approved by academic advisory committee. ENTR courses are strongly recommended.</i>		3
<b>TOTAL</b>			33