## MASTER OF ENGINEERING IN ADVANCED MANUFACTURING, DIGITAL MANUFACTURING TRACK

## **Curriculum**

Code	Title	C	Credit Hours
Core Courses			(12-14)
MMAE 501	Engineering Analysis I		3
Select 9-11 credit hours from the following courses:			9-11
ECE 411	Power Electronics	4	
ECE 412	Hybrid Electric Vehicle Drives	4	
ECE 438	Control Systems	3	
ECE 505	Applied Optimization for Engineers	3	
MMAE 546	Advanced Manufacturing Engineering	3	
MMAE 547	Computer-Integrated Manufacturing Technologies	3	
MMAE 557	Computer-Integrated Manufacturing Systems	3	
MMAE 560	Statistical Quality and Process Control	3	
Digital Manufacturing Courses			(9)
Select nine credit hours from the following courses:			9
ECE 565	Computer Vision and Image Processing	3	
ENGR/MMAE 539	Robotic Motion Planning	3	
ENGR/MMAE 587	Introduction to Digital Manufacturing	3	
MMAE 445	Computer-Aided Design	3	
MMAE 543	Modern Control Systems	3	
MMAE 545	Advanced CAD/CAM	3	
MMAE 587	Introduction to Digital Manufacturing	3	
Elective Courses			(7-9)
Select seven to nine credit hours from the following courses:			7-9
ENGR 595	Product Development for Entrepreneurs	3	
MMAE 451	Finite Element Methods in Engineering	3	
MMAE 502	Engineering Analysis II	3	
MMAE 532	Advanced Finite Element Methods	3	
MMAE 541	Advanced Dynamics	3	
MMAE 570	Computational Methods in Materials Science and Engineering	3	
MMAE 589	Applications in Reliability Engineering I	3	
MMAE 590	Applications in Reliability Engineering II	3	
MMAE 594	Project for Master of Engineering Students	1-6	

Minimum degree credits required: 30