

Master of Science in Manufacturing Systems (M.S.M.S. Degree)

Name: _____

Degree Courses	Completed	Future	Sem/Year
Core Courses (All Required)			
MMSE 505 Managerial Accounting and Performance Management			
MMSE 510 Excellence in Operations			
MMSE 604 Human Aspects of Technical Management			
MMSE 607 Purchasing, Logistics and Distribution			
MMSE 615 Statistical Methods for Manufacturing Quality			
MMSE 626 Designing Corrective and Preventive Action (CAPA) Systems OR MMSE 796 Design of Experiments			
MMSE 899 Capstone Course			
Service Operations Track (Choose one track)			
MBOP 600 Operations for Service Organizations			
Manufacturing Track (Choose one track)			
MMSE 501 Manufacturing Systems Design			
MMSE 601 Manufacturing Process Design			
Electives			
MMSE 578 Thermodynamics			
MMSE 579 Heat Transfer/Fluid Flow			
MMSE 600 Masterful Leaders and Leadership			
MMSE 602 Automated Control of Manufacturing Processes			
MMSE 609 Design and Manufacturing in the Medical Device Industry			
MMSE 610 Excellence in Product Design			
MMSE 631 Automation Systems in the U.S. and Overseas			
MMSE 636 Food Processing & Automation Systems			
MMSE 641 Injection Molding, Die Casting & Related Net Shape Processes			
MMSE 663 Program/Project/Team Management			
MMSE 665 Measurement for Quality			
MMSE 680 Enterprise Information Systems			
MMSE 686 Introduction to Micro-Electromechanical Systems (MEMS)			
MMSE 710 Introduction to Mechatronics			
MMSE 720 Enhanced Product Realization			
MMSE 777 Technology Forecasting and Strategic Prospective			
MMSE 786 Anatomy, Physiology for Medical Devices			
MMSE 787 Medical Device Regulatory Submissions			
MMSE 788 Medical Device Quality Systems			
MMSE 793 Polymers in Design			
MMSE 798 Safety, Health and Environmental Considerations			
MMSE 799 Selected Topics			
MMSE 805 Managing for Improved Profitability			
MMSE 806 Simulation of Logistics and Industrial Systems			
MMSE 807 Advanced Engineering Materials			
MMSE 808 Technology Transfer/Contemporary Problems			
MMSE 809 Biomaterials in the Design and Reliability of Medical and Other Devices			

	Completed	Future	Sem/Year
MMSE 821 Finite Element Analysis			
MMSE 840 Implementing Innovation (formerly MMSE 799 Technical Selling)			
MMSE 850 Process Design and Improvement – Computer Based Tools			
MMSE 851 Technology Risk Management			
MMSE 855 Strategic Quality Management			
MMSE 858 Introduction to Intellectual Property Law			
MMSE 859 Management of Technology and Innovation			
MMSE 898 Directed Studies			
Alternate Elective (International Students repeat 3 times)			
MMSE 700 Practical Study and Training in Manufacturing (1 Credit)			

Advisor: _____

Date of Approval: _____

Concentration, if applicable: _____