

2003-2004 Degree Plans

M.M.S.E.

The Master of Manufacturing Systems Engineering degree requires 45 credits or 15 three-credit courses. Ten core courses are required, five are electives. If you wish to do a predetermined concentration of four courses, please check those listed on the website.*

Required courses:

MMSE 501 Manufacturing System Design
MMSE 505 Managerial Acct. & Perf. Mgmt.
MMSE 510 Excellence in Operations
MMSE 615 Stat. Methods for Manuf. Quality
MMSE 663 Program/Project/Team Mgmt.
MMSE 698 Materials Engineering
MMSE 796 Design of Experiments
MMSE 882 Engineering Proj./Thesis Credits
MMSE 899 Capstone Course

Process, Assembly and Product Engr.

Select **ONE** of the following courses:

MMSE 578 Thermodynamics
MMSE 579 Heat Transfer and Fluid Flow
MMSE 602 Automated Control Manuf. Process
MMSE 610 Excellence in Product Design
MMSE 665 Measurement of Quality
MMSE 710 Introduction to Mechatronics
MMSE 821 Finite Element Analysis

Five Elective Courses**

M.S.M.S.

The Master of Science in Manufacturing Systems degree requires 42 credits or 14 three-credit courses. Seven core required courses; one or two track courses, five or six electives (depending on track taken). If you wish to do a predetermined concentration of four courses, please check those listed on the website.*

Required Courses:

MMSE 505 Managerial Acct. & Perf. Mgmt.
MMSE 510 Excellence in Operations
MMSE 604 Human Aspects of Tech. Mgmt.
MMSE 607 Purchasing, Logistics, & Dist.
MMSE 615 Stat. Methods for Manuf. Quality
MMSE 899 Capstone Course

Take either course:

MMSE 626 Designing Corrective and Preventive Action (CAPA) Systems
MMSE 796 Design of Experiments

Choose one of the following tracks:

Service Track

MBOP 601 Operations for Service Organizations

Six Elective Courses**

Manufacturing Track

MMSE 501 Manufacturing Systems
MMSE 601 Manufacturing Process

Five Elective Courses**

M.S.T.M.

The Master of Technology Management degree requires 45 credits or 15 three-credit courses. There are 11 required courses and four electives. If you wish to do a predetermined concentration of four courses, please check those listed on the website.*

Required Courses:

MMSE 505 Managerial Acct. & Perf. Mgmt.
MMSE 680 Enterprise Information Systems
MBVE 703 New Venture Marketing
MMSE 740 Supply Chain Synchronization
MMSE 777 Technology Forecasting & Strategic Prospective
MMSE 851 Technology Risk Management
MMSE 855 Strategic Quality Management
MMSE 858 Intro. to Intellectual Property Law
MMSE 859 Mgmt of Technology and Innovation **OR** MMSE 663 Program/Project/Team Management
MMSE 900 Technology Management Capstone

MMSE 799 Leveraging Leadership for a Lifetime (One credit course taken three times)
LLL1 taken prior to or after first class
LLL2 taken after five to seven classes
LLL3 taken after twelve classes

Four Elective Courses**

* The website is: www.stthomas.edu/engineering

** Elective courses may be from any graduate program, including: Engineering and Technology Management, Graduate School of Business (MBA, MBC, and MIM courses), Graduate Programs in Software, and Graduate School of Education.