

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

No Thesis/No Report Degree Requirements Manufacturing & Design Area

<i>Total Hrs:</i>	Min. 36
<i>Grad. Hrs.:</i>	Min. 30 (Max 6 UG hrs) No required ME UG courses accepted
	Min. of 24 hrs. in Mechanical Engineering
<i>Major Hrs.:</i>	Min. 18 hrs. in Manufacturing and Design
	12 hrs. from core courses, two from each Manufacturing and Design areas (see below)
<i>Grading:</i>	All major hours must be taken for letter grade
<i>Minor Hrs.:</i>	6-18
<i>Related Hrs.:</i>	Max. 6 (0-2 courses)

M&D Core Courses

Manufacturing:

- ME392Q.9 Additive Manufacturing
- ME392Q.11 High Throughput Nanopatterning
- ME392M.8 Medical Device Design and Mfg
- ME392M.9 Precision Machine Design
- ME397 Additive Manufacturing Lab
- ME397 Bioinspired Micro/Nanostructures
- ME397 Data Analytics and Process Control in Semiconductor Manufacturing
- ME397 Optical Engineering
- ME397 Statistical Methods in Mfg
- ME397 Introduction to Micro and Nanomanufacturing

Design:

- ME392M.6 Engineering Design Theory and Mathematical Techniques
- ME392M.7 Product Design, Development, and Prototyping
- ME392M.8 Medical Device Design and Mfg
- ME392M.9 Precision Machine Design
- ME397 Bioinspired Micro/Nanostructures
- ME397 Computational Methods for Engineering Design
- ME397 Data-Driven Design and Decision-Making in Complex Systems
- ME397 Theory/Design of Mechanical Measurements

Other:

- ME380Q-1 Engineering Analysis: Analytical Methods

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- ME383Q-2 Dynamics of Mechanical Systems
- ME383Q-4 Modeling of Physical Systems
- ME384Q-3 Time Series Modeling, Analysis, and Control
- ME384Q-7 Stochastic Systems, Estimation, and Control
- ME 398S Assessment and Curriculum Design in Engineering
- ME 398T Supervised Teaching in Mechanical Engineering