

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 area (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

Students must take at least two courses from each of the following areas:

Manufacturing:

- ME397 Additive Manufacturing
- ME397 Bioinspired Micro/Nanostructures
- ME397 Composites Manufacturing
- ME397:Data Analytics and Process Control in Semiconductor Manufacturing
- ME397 High Throughput Nanopatterning
- ME397 Medical Device Design and Mfg
- ME397 Optical Engineering
- ME397 Precision Machine Design
- ME397 Statistical Methods in Mfg

Design:

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

(Document revised: 11-Apr-22)