MECHANICAL ENGINEERING, MASTER OF ENGINEERING (M.ENG.)

Non-thesis only: 30 credits required

Students choose one of the two focus areas and take five core courses and five electives from that area. Electives must be approved by their advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<td>Select five core courses and five electives from one of the following focus areas:</td>
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**General Mechanical core course options:**

- ENME600 Engineering Design Methods
- ENME605 Advanced Systems Control
- ENME607 Engineering Decision Making and Risk Management
  or ENRE671 Risk Assessment in Engineering
- ENME610 Engineering Optimization
- ENME631 Advanced Conduction and Radiation Heat Transfer
- ENME632 Advanced Convection Heat Transfer
- ENME640 Fundamentals of Fluid Mechanics
- ENME662 Linear Vibrations
- ENPM652 Applied Finite Element Methods
- ENPM671 Advanced Mechanics of Materials
- ENME690 Mechanical Fundamentals of Electronic Systems
- ENME712 Measurement, Instrumentation and Data Analysis for Thermo-Fluid Processes

**Energy and The Environment core course options:**

- ENME647 Multiphase Flow and Heat Transfer
- ENPM621 Heat Pump and Refrigeration Systems Design Analysis
- ENPM622 Energy Conversion I - Stationary Power
- ENPM623 Control of Combustion Generated Air Pollution
- ENPM624 Renewable Energy Applications
- ENPM625 Heating, Ventilation and Air Conditioning of Buildings
- ENPM626 Waste to Energy Conversion
- ENPM627 Environmental Risk Analysis
- ENPM635 Thermal Systems Design Analysis
- ENPM651 Heat Transfer for Modern Application
- ENPM654 Energy Systems Management
- ENPM656 Energy Conversion II -- Mobile Power

Total Credits 30