## ADDITIVE MANUFACTURING, MASTER OF ENGINEERING (M.ENG.)

**Non-thesis only: 30 credits required**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Core Requirements</strong></td>
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<tr>
<td>Required course:</td>
<td></td>
<td>3</td>
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<tr>
<td>ENME744</td>
<td>Additive Manufacturing</td>
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<tr>
<td><strong>Select four of the following core courses:</strong></td>
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<td>12</td>
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<tr>
<td>ENME600</td>
<td>Engineering Design Methods</td>
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<tr>
<td>ENME607</td>
<td>Engineering Decision Making and Risk Management</td>
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<tr>
<td>or ENRE671</td>
<td>Risk Assessment in Engineering</td>
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<tr>
<td>ENME808</td>
<td>Advanced Topics in Mechanical Engineering (ENME808E Applied Machine Learning for Engineering and Design)</td>
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<tr>
<td>ENME610</td>
<td>Engineering Optimization</td>
<td></td>
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<tr>
<td>ENPM671</td>
<td>Advanced Mechanics of Materials</td>
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<td><strong>Select five of the following pre-approved technical electives:</strong></td>
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<td>15</td>
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<tr>
<td>ENME627</td>
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<tr>
<td>ENME647</td>
<td>Multiphase Flow and Heat Transfer</td>
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<tr>
<td>ENME672</td>
<td>Composite Materials</td>
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<tr>
<td>ENME770</td>
<td>Life Cycle Cost and System Sustainment Analysis</td>
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<tr>
<td>ENPM641</td>
<td>Systems Concepts, Issues, and Processes</td>
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<tr>
<td>ENPM808</td>
<td>Advanced Topics in Engineering (ENPM808G Additive Manufacturing for Aerospace, Energy and Water Applications)</td>
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<tr>
<td>ENPM808</td>
<td>Advanced Topics in Engineering (ENPM808E Applied Topology Optimization)</td>
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<tr>
<td>ENPM809</td>
<td>Special Topics in Engineering (ENPM809C Applied Statistics)</td>
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<tr>
<td><strong>Total Credits</strong></td>
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