Master of Technology
Specialization in Manufacturing Systems/Mechanical Engineering Technology/Mechatronics

**PROGRAM REQUIREMENTS (12 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 57010</td>
<td>Ethics, Technology and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>TECH 60000</td>
<td>Project Management in a Technological Environment</td>
<td>3</td>
</tr>
<tr>
<td>TECH 60001</td>
<td>Quantitative Methods in Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECH 60078</td>
<td>Research Methods in Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**ADDITIONAL PROGRAM REQUIREMENTS (21 credits)**

(see below)  
21

**MINIMUM TOTAL**  
33

A minimum of 15 credit hours of course work should be taken from the following list:

- TECH 50000 - Quality Standards
- TECH 52200 - Radiation Processing of Materials
- TECH 53550 - Computer-Aided Manufacturing
- TECH 53700 - Computer Integrated Manufacturing
- TECH 53800 - Applied Engineering Technology Seminar
- TECH 55551 - Introduction to Nanotechnology
- TECH 60003 - Six-Sigma: Tools and Applications for Technology Management
- TECH 63050 - TRIZ-Theory of Inventive Problem Solving
- TECH 63870 - Facility Design and Material Handling
- TECH 65400 - Evaluating Quality Systems Through Process Control
- TECH 65700 - Applied Reliability Engineering
- TECH 65800 - Burn-In/Stress Testing for Reliability
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Additional Program Requirements/Limitations
- A cumulative graduate GPA of 3.00 is required for graduation.
- A minimum of 18 credit hours in 60000-level or above coursework is required.
- A minimum of 21 credit hours of coursework must be taken in AERN, CMGT or TECH courses.
- A maximum of 4 credit hours of Workshop coursework may be used to satisfy the degree requirements.
- A maximum of 9 credit hours in Technology Individual Investigation coursework may be used to satisfy the degree requirements.
- A maximum of 12 semester credit hours may be accepted as transfer credits and applied toward degree requirements.
- A total of 6 credits for thesis (TECH 61199: Thesis I) will be counted if the thesis option is chosen.

Students are required to select the thesis or non-thesis option. The thesis option, recommended for students interested in research and development, allows students to acquire an in-depth knowledge of a narrowly-defined technical area of interest. The non-thesis option is suggested for students who seek a more general curriculum of advanced technical coursework. Those students who choose the thesis option must successfully complete TECH 61199 - Thesis I for a total of 6 credit hours.