Master of Engineering: Engineering Data Analytics

In this program, you will:
• Complete a flexible course plan in data analytics, engineering courses, and professional development
• Learn foundations of data analytics and how to use these skills within your engineering discipline

**Degree at a Glance**
- **Credits:** 30 Credits
- **Time Frame:** 2-4 years
- **Delivery:** Online
- **Tuition:** $1300 per credit
- **Degree Conferred:** Master of Engineering

The degree can be completed in 2 years. Students complete 30 credits in the following areas:

**Take at least fifteen Data Analytics core credits,**
- ME 459 Core Computing Concepts for Applications in Engineering
- ISyE 412 Core Industrial Data Analytics
- ME 759 Core High-Performance Computing for Applications in Engineering
- EPD 416 Core Engineering Applications of Statistics
- MEE 532 Core Matrix Methods in Machine Learning
- ECE TBD Core Principles of Signal Processing and Data Analysis
- LIS 751 Elective Introduction to Database Design and Management

**Add electives from one or concentrations to reach degree requirement of 30 credits**
All engineering courses are 3 credits except where otherwise noted by superscript

<table>
<thead>
<tr>
<th>Management</th>
<th>Manufacturing</th>
<th>Engine Systems</th>
<th>Controls</th>
<th>Power</th>
<th>Polymers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Problem Solving with Computers</td>
<td>Automation, Robotics &amp; Evaluating New Technology</td>
<td>Engine Performance &amp; Combustion&lt;sup&gt;α&lt;/sup&gt;</td>
<td>Automatic Controls</td>
<td>Electromechanical Energy Conversion</td>
<td>Introduction to Polymer Processing</td>
</tr>
<tr>
<td>Marketing for Engineers</td>
<td>Supply Chain &amp; Logistics Management</td>
<td>Perspectives in Engine Modeling&lt;sup&gt;β&lt;/sup&gt;</td>
<td>Physics-Based Modeling for Computer Control</td>
<td>Power Electronic Circuits</td>
<td>Fundamentals of Injection Molding</td>
</tr>
<tr>
<td>Communicating Technical Information</td>
<td>Technical Project Management</td>
<td>Analysis of Trends in Engines: Powertrain Tech &amp; Mfg. Constraints&lt;sup&gt;†&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>Modeling &amp; Simulation in Polymer Processing</td>
</tr>
<tr>
<td>Engineering Law&lt;sup&gt;‡&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**One-credit professional development electives**
- Connected Learning
- Organizational Communication
- Ethics for Professionals
- Presentations for Professionals
- Change Management
- Key Legal Concepts for Professionals
- Marketing for Non-Marketing Professionals
- Leading Teams
- Effective Negotiations
- Creating Breakthrough Innovations
- Financial and Business Acumen

Program curriculum and course availability are subject to change.
Coordinate eligibility for engineering electives with Program Director.