



**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

**Delivery:** Online

**Time Frame:** 2-4 years

**Tuition:** \$1300 per credit

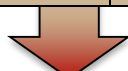
**Degree Conferred:** Master of Engineering

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

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



<b><u>Add electives from one or concentrations to reach degree requirement of 30 credits</u></b>					
All engineering courses are 3 credits except where otherwise noted by superscript					
Management	Manufacturing	Engine Systems	Controls	Power	Polymers
Engineering Problem Solving with Computers	Automation, Robotics & Evaluating New Technology	Engine Performance & Combustion <sup>4</sup>	Automatic Controls	Electromechanical Energy Conversion	Introduction to Polymer Processing
Engineering Economic Analysis & Management	Production Systems Analysis	Engine Project Management	Computer Control of Machines and Processes	Intro to Electric Drive Systems	Engrg. Design with Polymers
Marketing for Engineers	Supply Chain & Logistics Management	Perspectives in Engine Modeling <sup>2</sup>	Physics-Based Modeling for Computer Control	Power Electronic Circuits	Fundamentals of Injection Molding
International Engineering Strategies & Operations	Quality Engineering and Quality Management	Analysis of Trends in Engines: Legislation & Alt. Fuels <sup>1</sup>		Electric Power Systems	Composite Materials
Communicating Technical Information	Technical Project Management	Analysis of Trends in Engines: Powertrain Tech & Mfg. Constraints <sup>1</sup>			Modeling & Simulation in Polymer Processing
Engineering Law <sup>2</sup>					



<b>One-credit professional development electives</b>		
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.*