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WISCONSIN
UNIVERSITY OF WISCONSIN–MADISON

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:

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

Management	Manufacturing	Engine Systems	Controls	Power	Polymers
Engineering Problem Solving with Computers	Automation, Robotics & Evaluating New Technology	Engine Performance & Combustion[4]	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[2]	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[1]		Electric Power Systems	Composite Materials
Communicating Technical Information	Technical Project Management	Analysis of Trends in Engines: Powertrain Tech & Mfg. Constraints[1]			Modeling & Simulation in Polymer Processing
Engineering Law[2]					

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.