Data Analytics Engineering, MS—Online

Prepare for a career on the frontier of data analytics, with the Online Master of Science in Data Analytics Engineering. Whether you're an experienced engineer or brand-new to data analytics, this program will immerse you in specializations such as data visualization, database design, and data mining, giving you the opportunity to obtain the skills to bridge the gap between raw data and actionable insights.

Once you've mastered essential data analytics techniques such as data normalization and data mapping—and become proficient in multiple programming languages such as R, SQL, and Python—you'll be ready to take on roles like predictive modeling analyst, advanced software engineer, data integration engineer, and more to help shape the evolution of data as a transformative force in modern society.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Core Requirements

Code	Title	Hours
IE 6400	Foundations for Data Analytics Engineering	4
IE 6600	Computation and Visualization for Analytics	4
IE 6700	Data Management for Analytics	4
IE 7275	Data Mining in Engineering	4
OR 6205	Deterministic Operations Research	4

Additional Requirements

Code	Title	Hours
Complete 12 semester hours from the following:		12
IE 6750	Data Warehousing and Integration	
IE 7300	Statistical Learning for Engineering	
IE 7500	Applied Natural Language Processing in Engineering	
IE 7615	Neural Networks and Deep Learning	

Program Credit/GPA Requirements

32 total semester hours required
Minimum 3.000 GPA required