DATA SCIENCE: ENGINEERING, MS

Requirements for Students Matriculating in or before Academic Year 2025-2026. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 33

Code	Title	Hours
Core Courses		
Select 15 hours:		15
IEM 5083	Course IEM 5083 Not Found	
CS 5433	Big Data Management	
STAT 5543	Applied Regression Analysis	
STAT 5253	Mathematical Statistics I	
or STAT 5123	Probability Theory	
or IEM 5003	Probability and Statistics for Engineers	
IEM 5653	Course IEM 5653 Not Found	
or MATH 5653	Course MATH 5653 Not Found	
or STAT 5653	Course STAT 5653 Not Found	
Hours Subtotal		15
Required Courses		**9**
IEM 5683	Advanced Data Analytics in Industrial Engineering	
IEM 5723	Data, Process and Object Modeling	
IEM 5783	Applied Statistical Analysis in R for Engineers	
Hours Subtotal		9
Elective Courses		
Select at least 9 hours:		9
IEM 5013	Introduction to Optimization	
IEM 5103	Breakthrough Quality and Reliability	
IEM 5153	Process Design and Integration	
IEM 5703	Discrete System Simulation	
IEM 5673	Course IEM 5673 Not Found	
CS 5233	Intro to Database Systems	
CS 5413	Data Structures and Algorithm Analysis II	
MATH 5503	Introduction to Optimization	
STAT 5063	Statistical Machine Learning with R	
STAT 5223	Statistical Inference	
or STAT 5263	Mathematical Statistics II	
Hours Subtotal		9
Total Hours		**33**

Graduate College Master's Program Requirements

Learn more about Graduate College 2025-2026 Master's Degree Program Requirements (http://catalog.okstate.edu/graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.