Engineering Management Analytics (Certificate)

The Analytics Certificate aims to meet the increasing demand for professionals like you, who are skilled in big data and data analytics across various industries, government sectors, and research organizations.

In this certificate program, led by top faculty members from the Colleges of Engineering, Management, and Sciences, you will delve into topics such as data mining, Python programming, and operations analysis. Additionally, you will focus on the foundational aspects of analytics from a technical engineering perspective.

More Information

Engineering Management Program Website (https://mem.grad.ncsu.edu/engineering-management-programs/)

To apply to the program, you need to:

- Complete an online application form
- · Submit transcripts of all academic work after high school
- Provide a written personal statement
- Admission is competitive, and the GRE is not required. Your
 academic success plays a significant role in the admission process.
 However, completing a certificate program does not guarantee entry
 into a graduate degree program. You should have a STEM or another
 relevant bachelor's degree.

Applicant Information

· Delivery Method: On Campus, Online, Hybrid

Entrance Exam: NoneInterview Required: None

Plan Requirements

Code Core Course	Title	Hours 3	Counts towards
ISE 501	Introduction to Operations Research (required)		
Statistics Course	es	3	
Must complete on	ne course below		
ST 515	Experimental Statistics for Engineers I		
ST 516	Experimental Statistics For Engineers II		
ST 517	Applied Statistical Methods I		
ST 518	Applied Statistical Methods II		

Elective Courses		6		
Must complete two courses below				
CE 537	Computer Methods and Applications			
ISE 519	Database Applications in Industrial and Systems Engineering			
ISE 535	Python Programming for Industrial & Systems Engineers			
ISE 537	Statistical Models for Systems Analytics in Industrial Engineering			
ISE 547	Applications of Data Science in Healthcare			
ISE 560	Stochastic Models in Industrial Engineering			
MBA 545	Decision Making under Uncertainty			
OR 504	Introduction to Mathematical Programming			
OR 506	Algorithmic Methods in Nonlinear Programming			
ST 554	Analysis of Big Data			
ST 555	Statistical Programming I			
ST 556	Statistical Programming II			
ST 558	Data Science for Statisticians			
ST 563	Introduction to Statistical Learning			
Total Hours		12		
Faculty				
Director Brandon M. McConnell. Interim Director				
Brandon M. McConnell, Interim Director				

Full Professors

Sebastian Heese, Owens Distinguished Professor of Supply Chain Management

John Baugh, Professor

Joseph DeCarolis, Professor

Jingyan Dong, Professor

Yahya Fathi, Professor

Ola Harrysson, Edward P. Fitts Distinguished Professor

Jessica Jameson, Professor

Edward Jaselskis, E.I. Clancy Distinguished Professor

Russell King, Foscue Distinguished Professor

Yuan-Shin Lee, Professor

Maria Mayorga, Professor

Rohan Shirwaiker, James T. Ryan Professor

Daowen Zhang, Professor

Associate Professors

Karen Chen, Associate Professor

Adolfo R. Escobedo, Associate Professor

Michael Kay, Associate Professor

Tim Kraft, Associate Professor of Operations and Supply Chain Management

Osman Ozaltin, Associate Professor of Personalized Medicine

Daniel Saloni, Associate Professor

Jeffrey Stonebraker , Associate Professor of Operations and Supply Chain Management

Hong Wan, Associate Professor

Don Warsing, Associate Professor of Operations and Supply Chain Management

Assistant Professors

Xiaolei Fang, Assistant Professor

Leila Hajibabai, Assistant Professor

Associate Research Professor

Christopher D. Rock, Associate Research Professor

Associate Teaching Professor

Meagan Kittle Autry, Associate Teaching Professor

S. Sebnem Ahiska King, Teaching Associate Professor

Fred Livingston, Associate Teaching Professor

Kanton Reynolds, Associate Teaching Professor

Teaching Assistant Professor

Nur Ozaltin, Teaching Assistant Professor

Professor of the Practice

Doug Morton, Professor of the Practice

James Rispoli, Professor of the Practice

Michael Spano, Professor of Practice

Emeritus Faculty

Javad Taheri, Associate Research Professor Emeritus

Associate and Adjunct Faculty

Edwin Addison, Adjunct Professor

Lecturers

Steven DelGrosso, Lecturer

Dan Harris, Lecturer

Dan Kempton, Adjunct Lecturer

Robert Nunez, Lecturer