

# Certificate in Supply Chain Analytics

## Admission

Students seeking this certificate must be admitted to the Graduate School in a degree program or in nondegree category A status. All Graduate School policies relative to admissions apply.

Because international students must maintain a full course of study, they will not be issued an I-20 to pursue any part-time certificate program. They may, however, obtain a certificate while concurrently pursuing a graduate degree.

Students pursuing the graduate certificate must file an application for admission to the certificate program before half of the required credit hours are obtained. Requests for admission are reviewed by the program faculty and the dean of the Graduate School.

A few courses in this certificate program may require completion of a prerequisite course. Please consult with the graduate coordinator to discuss your application.

## Program Requirements

This certificate is aimed at equipping students with descriptive, predictive and prescriptive analytical skills while providing extensive conceptual and applied engineering background to model and solve complex supply chain management and analytics problems.

This program requires satisfactory completion of four courses from the following list. In addition to these requirements, students must meet the Graduate School's requirements (<http://catalog.wichita.edu/graduate/academic-information/types-programs-courses/certificates-graduate-programs/>) in order to earn this certificate.

Course	Title	Hours
<b>Required Courses</b>		
IME 783	Supply Chain Management	3
IME 883	Supply Chain Analytics	3
<b>Data Analytics Course</b>		
Select at least one data analytics course from the following		3
IME 734	Introduction to Data Mining and Analytics	
IME 780AN	Big Data Analytics in Engineering	
IME 780AP	Neural Networks and Machine Learning	
IME 869	Bayesian Statistics and Uncertainty Quantification	
IME 880Y	Forecasting and Analytics	
<b>Electives</b>		
Select at least one elective course from the following		3
IME 553	Production Systems	
IME 563	Facilities Planning and Design	
IME 767	Lean Manufacturing	
IME 780AQ	Simulation Modeling and Applications	
IME 890	Independent Study in Industrial Engineering (must relate to the supply chain topic)	

IME 990

Advanced Independent Study  
(must relate to the supply chain topic)

Total Credit Hours

12