

# Certificate in Systems Engineering and Management

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Students completing this program will be able to apply systems concepts and techniques to the understanding, description, design and management of large-scale systems requiring the integration of information and human activity.

The curriculum focuses on the essential knowledge, analytical techniques, and contemporary issues in complex systems definition, design and decision making.

## Program Prerequisites

Course	Title	Hours
MATH 243	Calculus II	5

## Program Requirements

This program requires satisfactory completion of four courses (i.e., a total of 12 credit hours) from among the following:

Course	Title	Hours
Select four of the following:		12
IME 664	Engineering Management	
IME 724	Statistical Methods for Engineers	
IME 749	Ergonomic Assessment Methods	
IME 759	Ergonomic Interventions	
IME 762	Smart Manufacturing	
IME 764	Systems Engineering and Analysis	
IME 765	Modeling and Analysis of Manufacturing Systems	
IME 767	Lean Manufacturing	
IME 775	Computer Integrated Manufacturing	
IME 780AL	Energy Analytics & Management	
IME 851	Stochastic Modeling and Analysis	
IME 854	Quality Engineering	
<b>Total Credit Hours</b>		<b>12</b>

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.