

# SIX SIGMA, CERTIFICATE

## REQUIREMENTS

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- Students must complete certificate courses with a GPA of 2.000 or higher.
- Courses completed on a pass/fail or audit basis will not count toward these requirements.

Code	Title	Credits
<b>Statistical foundations for quality engineering</b>		
Choose one:		3
I SY E/M E 512	Inspection, Quality Control and Reliability	
I SY E 612	Information Sensing and Analysis for Manufacturing Processes	
I SY E 575	Introduction to Quality Engineering	
<b>Contemporary industrial data analytics</b>		
Choose one:		3
I SY E 412	Fundamentals of Industrial Data Analytics	
I SY E 521	Machine Learning in Action for Industrial Engineers	
I SY E 649	Interactive Data Analytics	
I SY E 562	Human Factors of Data Science and Machine Learning	
<b>Manufacturing foundation and project management</b>		
Choose one:		3
I SY E 415	Introduction to Manufacturing Systems, Design and Analysis	
I SY E 515	Engineering Management of Continuous Process Improvement	
I SY E/M E 510	Facilities Planning	
I SY E 605	Computer Integrated Manufacturing	
I SY E/M E 641	Design and Analysis of Manufacturing Systems	
<b>Elective</b>		
Choose one additional course from any category above		3
<b>Total Credits</b>		<b>12</b>

### CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.