

# SIX SIGMA, MINOR

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Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Description

Six Sigma has been increasingly internalized by companies involved in manufacturing, health care, and service industries. The Six Sigma process has also been used to address environmental concerns such as water quality and energy conservation. Thus, this minor is designed for students who are interested in the Six Sigma statistical methodology for increasing productivity and enhancing quality. The minor will provide students with an understanding of how business models are changing in response to globalization and how the Six Sigma process and product improvement methodology is thus a vehicle for industry prosperity in this climate. Students completing the minor will develop their analytical and statistical skills, and gain a competitive advantage in the work place.

## What is Six Sigma?

Six Sigma is a highly disciplined process that puts sharp focus on developing and delivering near-perfect products and services. It has been used to shape both the strategy and operation of companies of all sizes and sectors. Six Sigma provides a framework for quality improvement and innovation that builds upon statistical tools to achieve results. Students completing the minor should:

- Be knowledgeable about why organizations use Six Sigma and how they apply it
- Gain experience with using the DMAIC methodology for problem solving
- Gain experience with using the DMADOV methodology for new product innovation
- Understand the links between customer requirements, product specifications, and process capability
- Understand the theory and application of regression analysis, design of experiments, and statistical quality control
- Be familiar with the project selection process including knowing when to use the Six Sigma methodology.

## You Might Like This Program If...

- You are interested in problem solving in business operations, lean manufacturing/business practices, and improving industry efficiencies.

The Six Sigma Minor is an 18-credit minor designed for any student who is interested in the Six Sigma statistical methodology. Industries utilizing Six Sigma skills include: manufacturing, transportation, warehousing, health care, defense, financial services, retail, leisure/hospitality, education, construction, consulting, and more.