

Overview

Six Sigma, at many organizations, simply means a measure of quality that strives for near perfection. Six Sigma is a disciplined, data-driven approach and methodology for eliminating defects (driving towards six standard deviations between the mean and the nearest specification limit) in any process – from manufacturing to transactional and from product to service. According to the Six Sigma Academy, Black Belts save companies approximately \$230,000 per project and can complete four to six projects a year.

Source: [Six Sigma Software/IT](http://software.isixsigma.com/sixsigma/six_sigma.asp). V.3.0lb 0.0-b246. iSixSigma LLC. 04 Oct. 2004 http://software.isixsigma.com/sixsigma/six_sigma.asp

Throughout four required online courses and a capstone experience, students will learn how to define, measure, analyze, improve and control processes for greater resource optimization. Upon completion, students earn the Six Sigma – Black Belt Graduate Certificate in Applied Statistics championed by the Applied Statistics Committee at Arizona State University.

Processes for Students

Six Sigma Certification

During the MBA, you will take five courses in a lock-step (sequential) format as outlined below. These courses are applicable to the MEng degree, and also make up your MBA elective requirements. The classes are outlined below, but may be subject to change.

Fall Year One	Spring- Year One	Summer- Year One
IEE 572 – Design of Engineering Experiments	IEE 570 – Statistical Process Monitoring & Control	IEE 578 – Regression Analysis
Fall- Year Two	Spring- Year Two	
IEE 581 – Six Sigma Methodology	IEE 585 Six Sigma Capstone	

As these courses are offered through the Ira A. Fulton School of Engineering, please visit the [Six Sigma Concurrent Degree web site](#) for the most current list of applicable classes. Your MBA Electives Coordinator will notify you before each semester as to what class you will register for.

Steps:

- Once admitted to the program, you should be contacted by the School of Engineering who will let you know who your Faculty Advisor will be.
 - Please make a note of it as you will reference your Advisor several times during the program.
 - If you do not hear from them by the start of your program, please contact your MBA Electives Coordinator who can obtain this information for you.
- Several weeks before each semester- remembering that these courses operate on a semester, rather than trimester basis- you will receive an e-mail from the MBA Electives

Coordinator letting you know when it is time to register for your next certificate course, and also providing the course information.

- The courses that are offered each semester may vary and are determined by the Fulton School of Engineering so you will need that e-mail to know which class to register for.
- Shortly after the e-mail from the Electives Coordinator, you will receive another e-mail what materials to collect from the ASU Bookstore (if any).
 - Material costs are included in your W. P. Carey MBA program fees, so you do not incur out-of-pocket costs for materials.

For technical questions about certificate courses or to understand the offerings a little more in depth, please contact the School of Engineering directly:

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MEng Degree

Once you have completed the five courses, you then only need an additional nine credit hours (three classes) to complete the MEng portion of the concurrent degree. From this point, you will work with the School of Engineering directly. Options for your courses may include**:

- IEE 573 Reliability Engineering or IEE 598 Analyzing Time Dependent Data
- IEE 520 Data Mining
- IEE 571 Quality Management
- IEE 579 Time Series and Forecasting
- IEE 582 Response Surfaces and Process Optimization
- IEE 598 Financial Engineering
- IEE 552 Strategic Technological Planning
- IEE 585 Six Sigma Capstone Project
- IEE 545 Simulating Stochastic Systems
- IEE 574 Applied Deterministic Operations Research Models
- IEE 575 Applied Stochastic Operations Research Models
- IEE 598 Supply Chain Modeling and Analysis

**Please note: Courses are subject to availability and may not be offered each semester. It is a good idea to work with your Engineering Faculty Advisor to determine the best courses.

Costs for the Program

Certificate Courses

Generally speaking, you pay the same per class for the technical certificate program courses as you would for “regular” MBA electives. The one major difference, however, is that you will need to take a summer course in the lock-step program and those cost a bit more.

As you may know, you pay two sets of costs for courses: (1) W. P. Carey fees/tuition & (2) ASU fees/tuition. ASU Graduate tuition caps at 7 credit hours and you are registered for 9 hours of core each semester. So, when you take electives in fall/spring you only pay W. P. Carey tuition/fees: \$625/credit hour is the W. P. Carey tuition/fee, hence each elective costs \$1875 in fall/spring. In the summer, however, you are not registered for core classes and are thus subject to paying the ASU tuition as well as the W.P. Carey tuition. For summer 2010, a three credit class incurred roughly \$1624 in graduate summer ASU tuition. ASU [Tuition and Fees Schedule](#)

MEng Courses

Once you complete the MBA, you are no longer charged W. P. Carey tuition/fees for courses, but will be charged program fees by the Fulton School of Engineering. Program fees for 2009-2010 academic year are \$1206 per course (three credits). You would also be subject to ASU tuition.