

Six Sigma Innovation & Design Certificate

Six Sigma can be regarded as a highly structured strategy for acquiring, assessing and applying customer, competitor, and enterprise intelligence for the purposes of achieving superior innovations in or design of products, processes, or systems. This certificate program is highly integrative and emphasizes the dominant tools and strategies employed in both innovation and design applications of Six Sigma. Program content is consistent with the generally acknowledged body of knowledge associated with highly coveted Six Sigma Black Belt Certification and addresses Six Sigma's DMAIC (Define-Measure-Analyze-Improve-Control) and DFSS (Design for Six Sigma) approaches to innovation and design in depth with other key program elements including Project Management and Lean Manufacturing / Lean Enterprise. Elective courses listed are intended to accommodate the applications and intersections of Six Sigma with business, engineering, and other environments.

Course Selection

The Six Sigma Innovation & Design Certificate consists of 12 credits selected from the following list below. Graduate (500-level) courses may require additional prerequisites or permission from the instructor prior to registration; and some courses may require use of Minitab software. In addition, Dr. Edgeman recommends students successfully complete STAT 401 Statistical Analysis, prior to starting the certificate. Refer to the *University of Idaho General Catalog* at <http://www.students.uidaho.edu/catalogs> for course descriptions and prerequisite requirements. Students must earn a grade of **"B" or better** in each class to qualify for the certificate. **If you are considering this certificate, contact the coordinator prior to registration.**

Required Courses (9 credits)		Credits
BUS 531	Managing the Design Process	3
STAT 507	Experimental Design	3
Special Topics	<i>As approved by Dr. Edgeman</i>	3
*Electives (3 credits)		Credits
Choose one or more of the following courses:		
BUS 414	Entrepreneurship	3
BUS 456	Quality Management	3
ME 583 / CE 541	Reliability of Engineering Systems	3
*Other electives	<i>As approved by Dr. Edgeman</i>	3

Admission

Students working toward a certificate must be admitted to the University of Idaho as either a nondegree, undergraduate, or graduate student and **must have a sufficient background in statistics as determined by the certificate coordinator**. Undergraduate and non-degree students must meet the minimum GPA admission requirement of 2.8 or higher in an undergraduate degree program to enroll in 500-level courses for this certificate. Undergraduates must also have senior standing.

Graduate Students

With graduate committee approval, certificate courses may be included in a graduate study plan; and up to 12 approved certificate course credits taken as a nondegree student may be transferred into a graduate program.

Nondegree and Undergraduate Students

Nondegree and undergraduate students can enhance their knowledge in Six Sigma Innovation and Design without seeking a graduate degree, and simultaneously build a strong foundation for a master's degree at a future date. Nondegree students who do not plan to work toward a degree at the University of Idaho, must earn all certificate course credits from the University of Idaho.

Transfer Credits

Graduate and undergraduate students who wish to apply approved transfer credits from another university toward this certificate may include *up to three* applicable credits as determined by the certificate coordinator.

Coordinator Rick L. Edgeman, Six Sigma Black Belt / Professor & Chair
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Signed by Rick Edgeman
Approved by certificate coordinator