SIX SIGMA GREEN BELT, CERTIFICATE

The Six Sigma Green Belt Certificate Program is a 6-credit hour certificate program housed in the Department of Engineering. Six Sigma is a method of continuous process improvement. First developed at Motorola in the 1980s, the systematic approach of Define, Measure, Analyze, Improve, and Control (DMAIC) and the associated tools (such as the fishbone diagram, the Pareto chart, and ANOVA) have been widely and successfully applied. Upon completion of this certificate, a student will be able to play a major role in process improvement and will be prepared to achieve the Black Belt and Master Black Belt certifications through their company.

Student Learning Outcomes

Students who successfully complete the Six Sigma Green Belt Certificate Program are expected to have the ability to:

- Collect and analyze data, using appropriate statistical tools; and
- Select and apply appropriate Six Sigma tools to improve a process.

Outcomes Assessment Activities

Within the department's existing assessment structures, the performance of Certificate students in the specific courses will be evaluated separately from other students.

Specific Program Requirements

Students will receive a Six Sigma Green Belt Certificate after completing the following:

Undergraduate Student

Course	Title	Credits
EN 275	Stochastic Systems [1,2]	3-4
or EN 375	Stochastic Systems Engineering	
EN 443	Quality Control and Reliability [1]	3
Total Credits		**6-7**

[1] With grade of B or better.
[2] Or evidence of completion of a course equivalent to EN 275 or EN 375

Graduate Student

Course	Title	Credits
EN 375	Stochastic Systems Engineering [1,2]	3
EN 543	Quality Control and Reliability [1]	3
Total Credits		**6**

[1] With grade of B or better.
[2] Or evidence of a course equivalent to EN 275 Stochastic Systems (4 c.h.) or EN 375 Stochastic Systems Engineering (3 c.h.).