

**IT 470b**  
**Six Sigma Green Belt**  
**Spring 2012**

**Catalog Description:**

Study the knowledge areas of Six Sigma Green Belt. The purpose of this course is to provide the student with a comprehensive coverage of the techniques, tools, and applications of the methodology by the name “Six Sigma.” Real-life data from manufacturing companies will be evaluated (when available) and analyzed for better understanding of the concepts to be learned in the course.

**Course Objective:**

This course will cover the knowledge areas of Six Sigma Green Belt. Topics include; exploratory data analysis, correlation and regression, hypothesis testing, single-factor ANOVA, Design of Experiments basics, implement and validate solutions, statistical process control, control plans.

**Important Dates/Times:**

Class meets Saturday and Sunday 3/17-18, 3/31-4/1, and 4/14-15 from 8:00am-4:30pm

Test 1 – Afternoon 3/18

Test 2 – Afternoon 4/1

Test 3 – Afternoon 4/15

**Assessment Methods:**

Grade scale 90/80/70/60

1. 3 Exams (25% each, all comprehensive) – no late test accepted
2. Homework/ project work/ research (25%) – no late work accepted
3. Class participation (attendance)

**Note: College policy on cheating and plagiarism will be adhered to.**

**Topical Outline: (tentative)**

Section IX Test 1

Section X Test 2

Section XI Test 3

**Text and Supplies:**

Required: Statistical CSSGB PRIMER, Quality Council of Indiana, [www.qualitycouncil.com](http://www.qualitycouncil.com), 2006, or latest.

Scientific calculator (must have average, standard deviation, etc)

Recommended: Access to Microsoft Office or similar office program

**Class Layout:**

Homework assignment – Q/A – Lecture – Exercise/Exam

**Instructor:**

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**Disclaimer:**

Circumstances may require some changes to this syllabus.